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Appendix VII

Pennsylvania Orchard and Vineyard Survey

1978

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PENNSYLVANIA ORCHARD & VINEYARD INVENTORY SURVEY

compiled by

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DEPARTMENT OF AGRICULTURE

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UNITED STATES
DEPARTMENT OF AGRICULTURE

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FOREWORD



The Commonwealth of Pennsylvania has a prominent position in the nation's production of deciduous fruit.

Pennsylvania usually ranks fourth or fifth in apple and peach production, fifth in grape production, sixth in cherry production and eighth in pear production.

The fruit industry is a dynamic one and adapting to a changing fruit market takes considerable foresight, courage, work and money — fruit trees and grapevines need several years of care before a crop is produced.

This bulletin, which records significant developments in the important fruit industry of Pennsylvania, is intended to provide basic information as a guide in production and marketing plans for all sectors of the Pennsylvania fruit industry.

Accordingly, the Department is pleased to present the 1978 Orchard and Vineyard survey publication. This bulletin has been made possible through the joint effort of the U.S. Department of Agriculture and the Pennsylvania Department of Agriculture.

Sincerely yours,

Penrose Hallowell
Secretary of Agriculture

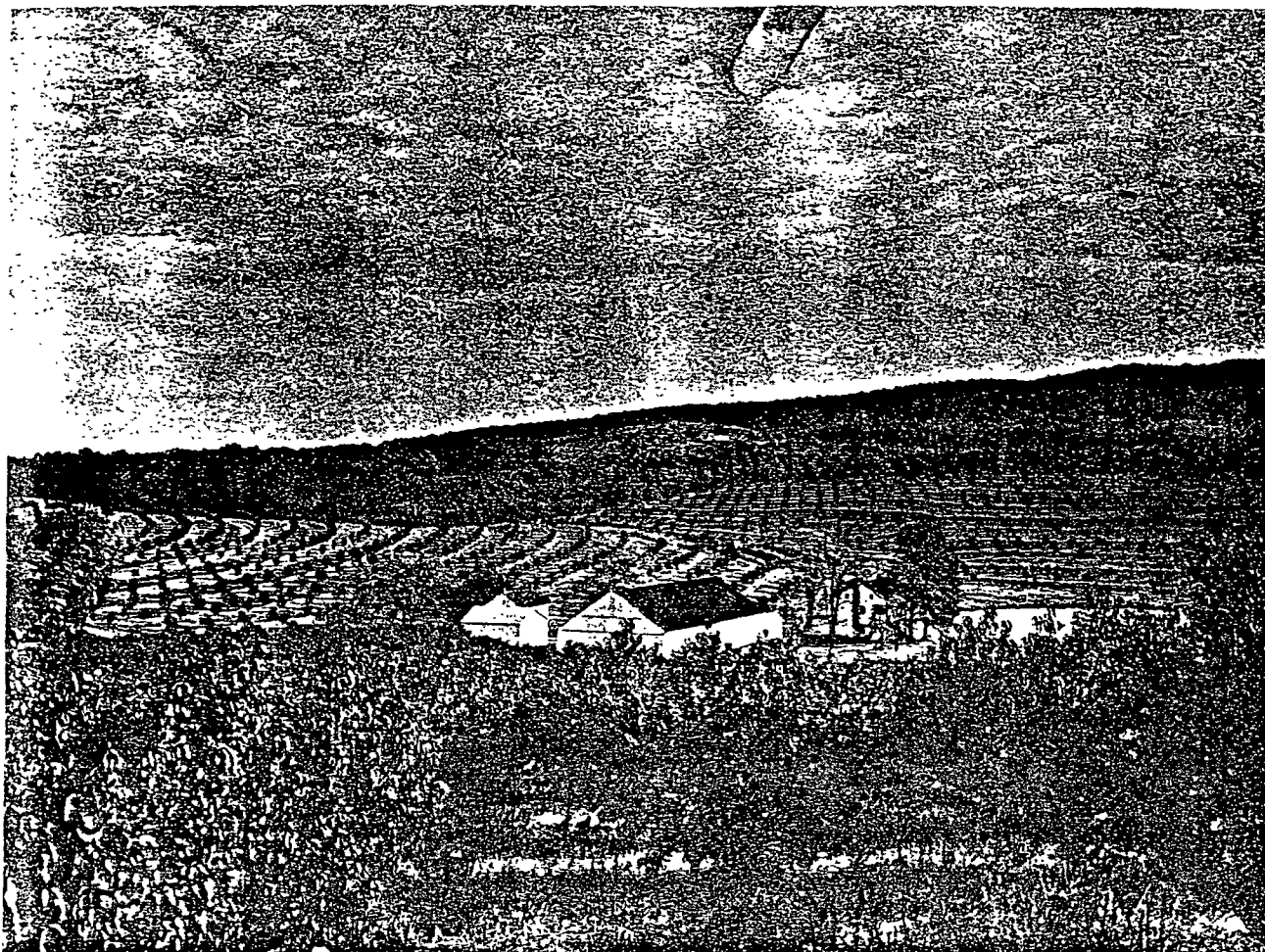


PHOTO CREDIT: Grant Heilman
Lititz, PA

ACKNOWLEDGEMENTS

THE PENNSYLVANIA CROP REPORTING SERVICE EXPRESSES APPRECIATION TO ALL FRUIT PRODUCERS WHO VOLUNTARILY COOPERATED IN FURNISHING DATA PERTAINING TO THEIR OPERATIONS. SPECIAL RECOGNITION IS EXTENDED TO THE FOLLOWING PEOPLE WHO CONTRIBUTED IN VARIOUS WAYS:

WILLIAM J. FLUKE, RETIRED STATISTICIAN-IN-CHARGE, PENNSYLVANIA SSO
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TABLE OF CONTENTS

Description of survey	Page i	PEARS:	
Highlights of survey results	ii	Highlights of survey results	23
Orchards & Vineyards: Number of growers, trees and acres by kind of fruit 1964, 1967, 1972 and 1978	iii	Comparison of commercial grower and tree numbers by region — 1967, 1972 and 1978	23
All Fruit: Number and percent breakdown by age groups	iv	Region and district maps, illustrated total number of trees by county	24
APPLES		Total growers, acres, trees and production by county and region — 1972, 1978	25
Highlights of survey results	1	Total growers, acres, trees, and production by size of operation and region	26
Comparison of commercial grower and tree numbers by region — 1967, 1972 and 1978	1	Comparison of commercial and non-commercial grower and tree numbers, 1967, 1972, and 1978	26
Comparison of number and size of commercial orchards by region — 1967, 1972 and 1978	1	Production, disposition and value 1930-1978	27
Region and district maps, illustrated total number of trees by county	2	Number of total trees by counties and age groups	28
Total growers, acres, types of trees and production by county and region	3	Total trees by variety and age groups	29
Total growers, acres, trees and production by size of operation and region	4	CHERRIES:	
Comparison of commercial and non-commercial grower and tree numbers, 1967, 1972, and 1978	4	Highlights of survey results	30
Cold storage bushel capacity by county and region	5	Comparison of commercial grower and tree numbers by region 1967, 1972, and 1978	30
Production, disposition and value 1930-1978	6	Region and district maps, illustrated total number of trees by county	31
Comparison of total growers and trees of all ages by county, 1967, 1972 and 1978	7	Production, disposition and value 1940-1978	32
Number of total trees by counties and age groups	8	Total growers, acres, trees and production by county	33
Number of total standard size trees by counties and age groups	9	Tart Cherries: Total growers, acres, trees and production by size of operation and region	34
Number of total size controlled trees by counties and age groups	10	Sweet Cherries: Total growers, acres, trees and production by size of operation	34
Total all types by variety and age groups	11	Tart Cherries: Comparison of total growers and trees of all ages by county 1967, 1972 and 1978	35
Total trees, percent age breakdown of trees, production and yield	12	Tart Cherries: Number of total trees by counties and age groups	36
Total standard trees by variety and age groups	13	Total trees by variety and age groups	37
Total size controlled trees by variety and age groups	14	GRAPES:	
PEACHES		Highlights of survey results	38
Highlights of survey results	15	Comparison of total number of vineyards and acres by region — 1972 and 1978	38
Comparison of commercial grower and tree numbers by region — 1967, 1972 and 1978	15	Region map, illustrated total number of acres by county .	38
Comparison of number and size of commercial orchards by region — 1967, 1972 and 1978	15	Total growers, acres and production by size of operation — 1972 and 1978	39
Region and district maps, illustrated total number of trees by county	16	Total growers, acres and production by county and region	39
Total growers, acres, trees and production by county and region	17	Total number of vineyards by size of operation and county	39
Total growers, acres, trees and production by size of operation and region	18	Total acres of vines by variety, county and age groups ...	40
Comparison of commercial and non-commercial grower and tree numbers, 1967, 1972, and 1978	18	Comparison of varieties by total acres — 1972 and 1978 .	41
Production, disposition, and value 1930-1978	19	Average price paid by Pennsylvania wineries and processors for Pennsylvania grown grapes by variety 1976, 1977 and 1978	41
Comparison of total growers and trees of all ages by county, 1967, 1972 and 1978	20	Production, disposition and value 1930-1978	41
Number of total trees by counties and age groups	21	Pennsylvania grown grapes by variety delivered to wineries and processing plants — 1976, 1977 and 1978	42
Total trees by variety and age groups	22	Utilization by variety used in Pennsylvania wineries and processing plants — 1976, 1977 and 1978	42
		Utilization by variety of Pennsylvania grown grapes to all wineries and processors — 1976, 1977 and 1978	42

PLUMS & PRUNES:

Highlights of survey results.....	43
Comparison of commercial and non-commercial grower and tree numbers — 1967, 1972, and 1978.....	43
Region and district maps, illustrated total number of trees by county.....	44
Total growers, acres, trees and production by county and region.....	45
Total growers, acres, trees and production by size of operation.....	46
Total trees by variety and age groups.....	46
Number of commercial orchards and trees by size groups, selected counties.....	46
Total number of trees by counties and age groups.....	47

NECTARINES:

Highlights of survey results.....	48
Comparison of commercial and non-commercial grower and tree numbers 1967, 1972, and 1978.....	48
Region and district maps, illustrated total number of trees by county.....	49
Total growers, acres, trees and production by county and region.....	50

Total growers, acres, trees and production by size of operation.....	51
Total trees by variety and age groups.....	51
Number of commercial orchards and trees by size groups, selected counties.....	51
Total number of trees by counties and age groups.....	52

APPENDIX:

All fruit — acres by kind and county.....	53
Pennsylvania — peaches, nectarines, pears, plums and prunes — reported average weight per bushel of production — 1977.....	54
Apples and peach varieties reported in Pennsylvania....	55
Other fruits — varieties reported in Pennsylvania.....	56
Apples, peaches, pears — comparison of leading varieties in selected states.....	57
Pennsylvania — Usual dates of full bloom, harvest and marketing for principal fruit crops.....	58
Tree Density Guide.....	58
Orchard and Vineyard Survey Questionnaire.....	59-62

DESCRIPTION OF THE 1978 PENNSYLVANIA ORCHARD AND VINEYARD SURVEY

By: Chris L. Cadwallader

INTRODUCTION: Pennsylvania has a prominent position in deciduous fruit production on the National level. The Commonwealth usually ranks fourth or fifth in apple and peach production, fifth in grape production, sixth in cherry production and seventh in pear production. To some, Pennsylvania may not easily be recognized as a major fruit producing state because of the relatively small, intensified fruit producing areas in relation to the size of Pennsylvania.

Of the total 67 counties in the state, ten counties had 78 percent of the apple acreage. Erie county alone had 96 percent of the grape acreage, and six counties had 76 percent of the state's peach acreage. There are 28,692,480 acres in the Keystone state with approximately 61,900 acres in orchards and vineyards. Therefore, fruit acreage accounts for only 2 tenths of one percent of Pennsylvania's total land mass. Adams, Berks, Cumberland, Erie, Franklin, Lancaster, Lehigh and York counties had 81 percent of the total fruit acreage in Pennsylvania.

The fruit industry is a dynamic one, annually contributing approximately 60 million dollars, or 10 percent, to the state's total value of cash receipts from all crops.

SURVEY OBJECTIVES: Each kind and variety of fruit has special production and marketing characteristics and challenges. Some are best adapted to certain exposures, slope and soil; some are needed as pollinators and some can be planted on size-controlled root stock. Some ripen early, mid-season and late season, helping to spread out the production and marketing work load. Some are quite perishable while some are firm, storable and transportable. Some are best eaten fresh or in culinary preparations such as salads, sauce, fruit cocktail, etc.; whereas some are best baked whole or as pie filling and some are best utilized for juice, wines, or brandy.

The purpose of this survey is to satisfy requests by various segments of the fruit industry for a detailed inventory of Pennsylvania's fruit tree numbers and grape vine acreage by age and variety. Growers, wholesalers, cooperatives, brokers, processors, retailers, input suppliers, research workers, county agents and government need and use the survey data for many important purposes. Growers provide the survey information, and the benefits derived through analysis of this data are channeled back to the growers through improved services.

This is the sixth in a series of Orchard and Vineyard inventory surveys conducted in 1953, 1957, 1964, 1967 and 1972 for Pennsylvania. This report will also be comparable with surveys compiled by other State Statistical Offices. If copies of the reports for other States are needed, they may be obtained by writing to the Pennsylvania Crop Reporting Service.

DEFINITION OF COMMERCIAL FRUIT OPERATION: A commercial orchard is defined as one having 100 or more trees of one of the following fruits being maintained for production: apples, peaches, pears, plums and prunes, sweet cherries, tart cherries or nectarines. A commercial vineyard is defined as one having two acres or more of grape vines maintained for production.

Fruit operations which did not meet these requirements were excluded in this survey. Also excluded from this survey were mature orchards and vineyards which qualified as commercial but were not being maintained for production at the time of data collection. The tables contained within this publication with (total) in the heading include counts from all commercial fruit operations regardless of number of trees or acres of the specified fruit. Tables with (commercial) in the heading exclude growers who do not have 100 or more trees for the respective fruit or two acres or more for grapes.

SURVEY METHODOLOGY: In June of 1977 the Crop Reporting Service began to solicit lists of potential fruit growers from County Agents, processing firms, grower associations and cooperatives, trade publications and various fruit directories. Over 80 lists were received and reviewed. This effort yielded 4,230 names. These names were then checked for duplication within the listings and upon completion, 2,680 names of potential fruit growers remained for inquiry.

In November of 1977 a screening questionnaire was developed and mailed. A second and third request were mailed to the non-respondents. A telephone follow-up was conducted in January and February of 1978 for the remaining non-respondents. Of the 2,680 names of potential fruit growers, 175 could not be contacted or verified.

In addition to the list building process mentioned above, the screening questionnaire and the survey questionnaire asked each individual to list names of fruit operations nearby. This "snowball technique" netted an additional 140 names of potential fruit growers for further inquiry.

The overall list building project resulted in a master list of 1,510 commercial fruit grower operations. The remaining potential fruit growers were either out of business or did not qualify as commercial operations.

The master list was mailed a survey questionnaire in March 1978 with a second request mailed in April to 1,100 non-respondents. Of the 870 non-respondents to the second request, 550 had over 10 acres of fruit and were personally contacted while 320 with less than 10 acres in fruit were interviewed by telephone.

From the master list of 1,510 fruit growers, 1,275 commercial fruit reports were summarized. The balance of 235 were non-commercial, abandoned, out of business, etc. Every effort has been made to publish survey results in a detailed format as possible without relaxing restrictions on disclosure of individual operations. Crop utilization and value estimates presented herein were obtained through the annual estimating programs of the Pennsylvania Crop Reporting Service.

OTHER VARIETIES: This category includes minor varieties of the specified fruit. Included are fruit tree numbers from growers who reported a small quantity of "miscellaneous" or "other" varieties. A small percentage of data for some of the major varieties may be included in the "other" category.

HIGHLIGHTS OF SURVEY RESULTS

Number Of Commercial Orchards/Vineyards: The number of commercial fruit operations accounted for in the 1978 survey was 1,275 compared with 1,035 in the 1972 survey, a 23 percent increase. Commercial nectarine orchards increased 61 percent from 44 in 1972 to 71 in 1978. A total of 436 commercial grape vineyards were counted in 1978 compared with 348 in 1972, an increase of 25 percent. Apple orchards at 825, increased 22 percent from 674 in 1972. Commercial pear orchards increased 7 percent from 180 in 1972 to 193 in 1978, and peach orchards increased from 472 to 498, or 6 percent.

On the declining side, tart cherry orchards dropped 30 percent from 201 in 1972 to 140 in 1978. Commercial plum and prune orchards declined 28 percent from 108 in 1972 to 78 in 1978. Sweet cherry operations at 61 in 1978 compared with 73 in 1972, down 16 percent.

Trees In Commercial Orchards: For commercial tree numbers (100+ for each fruit), nectarine trees more than doubled, pear trees increased 23 percent, sweet cherry trees increased 19 percent and apple trees increased 18 percent, while plum and prune, tart cherry and peach trees declined 20, 16 and 3 percent respectively from 1972.

Age Of Trees: Of the total trees accounted for on all commercial fruit operations, 15.9 percent were in the 1-3 year age group, 14.6 percent in the 4-6 year age group, 48.2 percent in the 7-21 year age group and 21.3 percent in the 22 years plus age group.

Acreage Of Commercial Trees: The corresponding acreage for commercial fruit trees (100+ for each fruit) on the 1,275 commercial fruit farms in 1978 was 47,137.5. This is a 6 percent decline from the 50,304 acres in 1972. Increased tree planting densities are primarily responsible for the decline in acreage.

Acreage Of Commercial Vineyards: The acreage of commercial vineyards in 1978 was 14,245.4 compared with 9,865.8 in 1972, a 44 percent increase. All fruit production regions were up sharply from 1972 acreage levels.

Age Of Acreage In Vineyards: Of the total 14,271.3 acres of grapes on all commercial fruit farms, 10.0 percent were in the 1-3 year age group, 9.3 percent in the 4-6 year age group and 80.7 percent in the 7 years and older age group.



Photo Credit: Tom Piper

PENNSYLVANIA: ORCHARDS AND VINEYARDS (TOTAL & COMMERCIAL): NUMBER OF FARMS, TREES AND ACRES
BY KIND OF FRUIT - 1964, 1967, 1972 & 1978

Fruit	Farms		Trees		Acres		Trees Per Acre	
	Total	Commercial	Total	Commercial	Total	Commercial	Total	Commercial
<u>1964</u>								
Apples.....	1/	984	1/	1,710,115	1/	39,837	1/	42
Peaches.....	1/	742	1/	1,050,311	1/	13,509	1/	78
Pears.....	1/	188	1/	73,255	1/	994	1/	74
Tart Cherries....	1/	353	1/	322,416	1/	3,518	1/	92
Sweet Cherries...	1/	91	1/	27,680	1/	489	1/	57
Grapes.....	1/	303	-	-	1/	7,292	-	-
Plums & Prunes...	1/	1/	1/	1/	1/	1/	1/	1/
Nectarines.....	1/	1/	1/	1/	1/	1/	1/	1/
All Fruit.....	1,446 3/	-	-	-	1/	65,639 2/	-	-
<u>1967</u>								
Apples.....	968	879	1,774,885	1,771,582	38,558	1/	46	1/
Peaches.....	780	665	1,074,108	1,069,598	13,297	1/	81	1/
Pears.....	580	237	104,934	94,421	1,301	1/	81	1/
Tart Cherries....	481	283	275,473	270,906	3,236	1/	85	1/
Sweet Cherries...	386	86	32,944	26,296	702	1/	47	1/
Grapes.....	420	-	-	-	8,644	1/	-	-
Plums & Prunes...	363	127	49,505	42,173	944	1/	52	1/
Nectarines.....	141	35	26,931	24,039	352	1/	77	1/
All Fruit.....	1,321 3/	-	-	-	67,034	1/	-	-
<u>1972</u>								
Apples.....	715	674	1,815,608	1,813,756	34,601	34,547	52	53
Peaches.....	545	472	887,001	882,550	11,076	10,955	80	81
Pears.....	401	180	104,288	96,373	1,212	1,073	86	90
Tart Cherries....	318	201	220,667	217,610	2,613	2,550	84	85
Sweet Cherries...	232	73	32,343	28,230	618	526	52	54
Grapes.....	379	348	-	-	9,887.7	9,865.8	-	-
Plums & Prunes...	281	108	41,573	36,327	528	431	79	84
Nectarines.....	130	44	21,352	19,024	253	222	84	86
All Fruit.....	1,035 3/	-	-	-	60,779.7	60,169.8	-	-
<u>1978</u>								
Apples.....	893	825	2,145,658	2,142,214	32,858.4	32,790.9	65	65
Peaches.....	616	498	856,842	852,052	9,781.7	9,727.5	88	88
Pears.....	477	193	127,158	118,874	1,499.8	1,380.7	85	86
Tart Cherries....	302	140	186,387	183,768	2,000.5	1,967.0	93	93
Sweet Cherries...	269	61	38,019	33,068	545.7	472.5	70	70
Grapes.....	474	436	-	-	14,271.3	14,245.4	-	-
Plums & Prunes...	319	78	35,479	29,120	386.5	319.3	92	91
Nectarines.....	224	71	47,938	44,877	527.1	479.6	91	94
All Fruit.....	1,275 3/	-	-	-	61,871.0	61,382.9	-	-

1/ Data not available.

2/ Does not include plum, prune or nectarine data.

3/ Total number of commercial fruit farms in Pennsylvania. Farms (total) is the total number of commercial fruit farms reporting. Farms (commercial) is the number of commercial fruit farms reporting 100 or more trees for each particular fruit or two or more acres for grapes.

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PENNSYLVANIA: ALL FRUIT (TOTAL): NUMBER AND PERCENT BREAKDOWN BY AGE GROUPS - 1978 ^{1/}

Fruit	1975-1977 (1-3 Years)		1972-1974 (4-6 Years)		1957-1971 (7-21 Years)		1956 & Earlier (22 Years +)		Total All Ages	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Apples.....	311,944	14.5	262,664	12.3	1,000,463	46.6	570,587	26.6	2,145,658	100.0
• Peaches.....	176,261	20.6	158,743	18.5	470,106	54.9	51,732	6.0	856,842	100.0
• Pears.....	11,546	9.1	18,318	14.4	68,579	53.9	28,715	22.6	127,158	100.0
• Tart Cherries....	27,597	14.8	31,239	16.8	64,065	34.4	63,486	34.0	186,387	100.0
• Sweet Cherries...	6,084	16.0	4,019	10.6	15,444	40.6	12,472	32.8	38,019	100.0
• Plums & Prunes...	4,454	12.6	5,622	15.8	20,775	58.6	4,628	13.0	35,479	100.0
• Nectarines.....	9,909	20.7	19,974	41.6	17,868	37.3	187	.4	47,938	100.0
TOTAL.....	547,795	15.9	500,579	14.6	1,657,300	48.2	731,807	21.3	3,437,481	100.0
• Grapes.....	1,428.6	10.0	1,320.6	9.3	11,522.1	80.7	^{2/}	^{2/}	14,271.3	100.0

^{1/} Number of acres for grapes, number of trees for all other fruits.

^{2/} Included in the 7-21 year age group.

APPLES

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Number of Orchards and Trees: A total of 893 apple growers were accounted for in the 1978 survey with 825 qualifying as commercial (100+ trees). In 1972 the total number of growers was 715 with 674 qualifying as commercial. Tree numbers have shown a continued gain since the first commercial fruit tree survey conducted in 1953. Commercial apple growers in 1978 had 2,142,214 trees compared with 1,813,756 trees in 1972, an 18 percent increase. Of the total 2,145,658 apple trees in 1978, 65 percent were standard size trees and 35 percent dwarf, semi-dwarf, spur type or trellis. Comparable percentages for the 1972 survey were 75 and 25 respectively. Of the 825 commercial apple growers, 180 or 22 percent accounted for 81 percent of the trees.

Acreage In Orchards: A total of 32,790.9 acres of land was being used by commercial apple orchards in 1978. This is a decline of 1,756.1 acres from 1972. The fact that commercial apple acreage declined 5 percent from 1972 while corresponding trees increased 18 percent is indicative of the 10 percent increase in size controlled rootstock during the same period. Trees per acre increased from 53 in 1972 to 65 in 1978.

Location Of Trees: Apples are widely grown throughout Pennsylvania but the inventory of commercial trees in Fruit Region I accounts for 64 percent of the total. This is a 2 percent decline from 1972. The ten leading counties (Adams, Franklin, Lehigh, Berks, York, Erie, Bedford, Cumberland, Snyder and Allegheny) contained 78 percent or 1,748,167 of the total 2,145,658 trees.

Age Of Trees: Of the total 2,145,658 apple trees, 14.5 percent were 1-3 years old, 12.3 percent 4-6 years old, 46.6 percent 7-21 years old and 26.6 percent 22 years or older. New plantings of standard size trees continued to decline in relation to the increase in size controlled tree planting. For trees planted since 1972, 75 percent were of size controlled types.

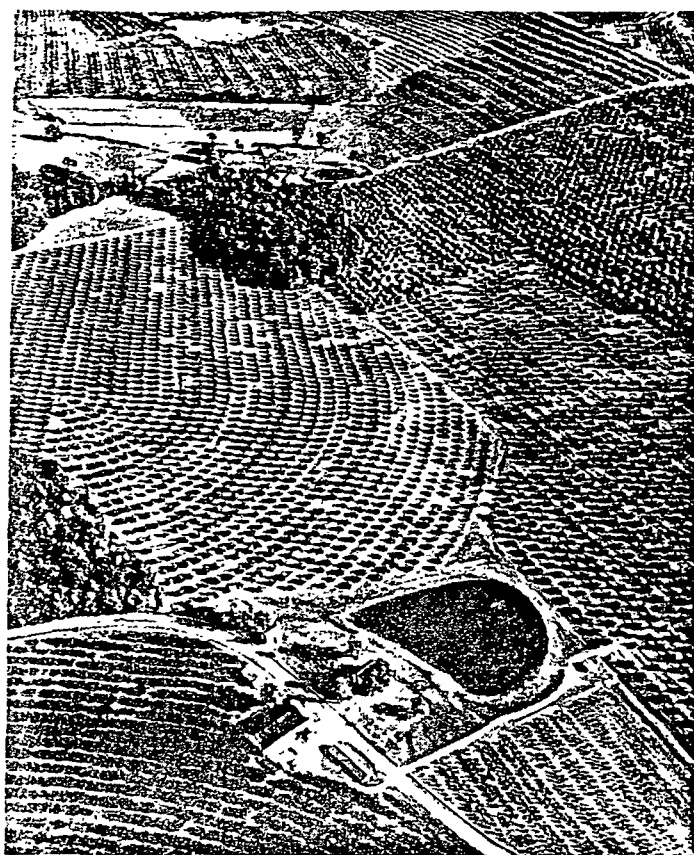


Photo Credit: Grant Heilman, Lititz, PA.

Varieties: Red Delicious continues to be the leading variety accounting for 28 percent of all trees in 1978. The number of Red Delicious trees increased 54 percent from 1972. Other leading varieties as a percent of total trees are: York Imperial — 19, Golden Delicious — 16, Rome Beauty — 11, Stayman — 9, Jonathan and McIntosh — 4. Of the total trees 1-3 years old, 40 percent were Red Delicious and 11 percent Golden Delicious.

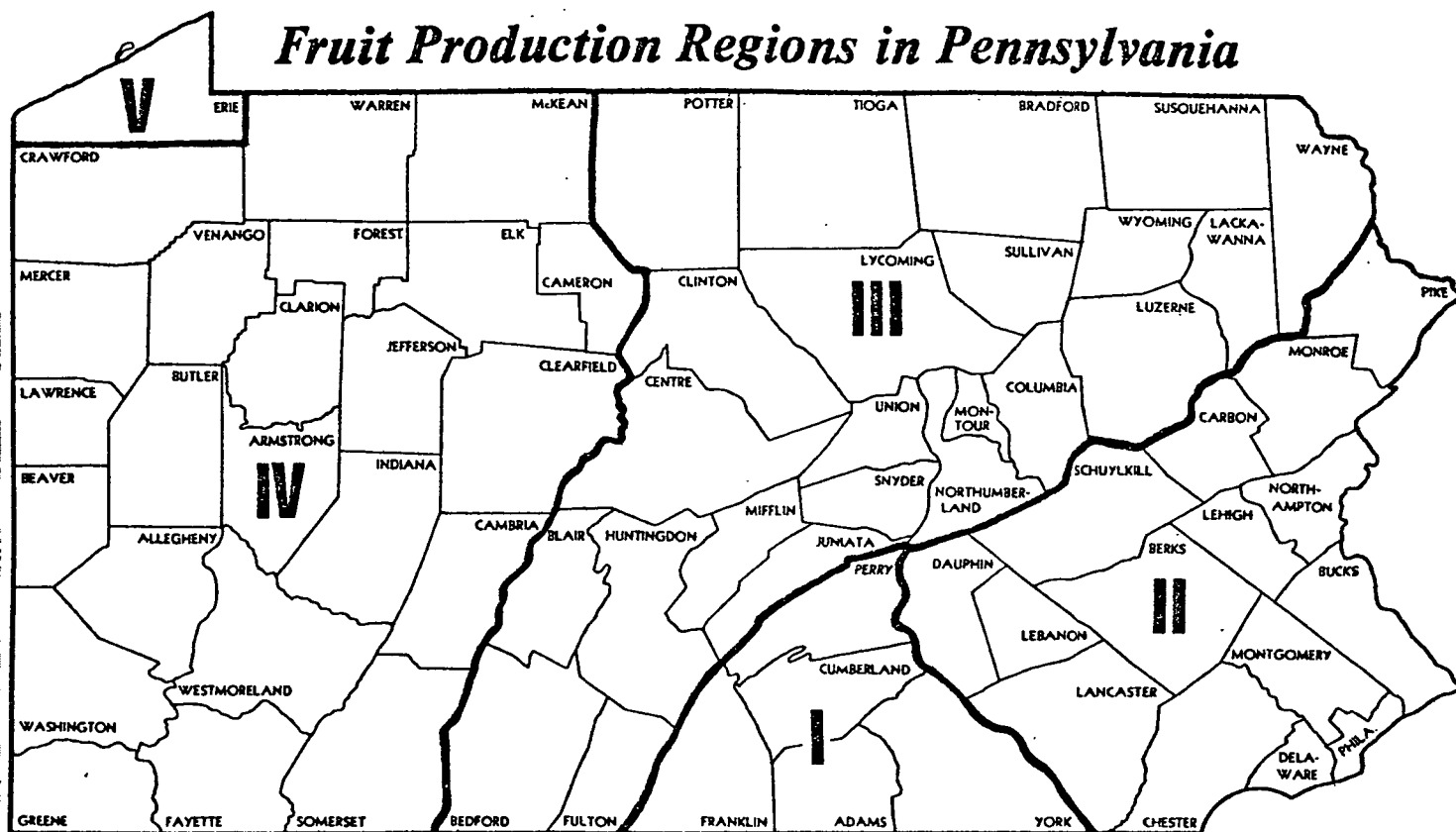
PENNSYLVANIA: APPLES (COMMERCIAL): COMPARISON OF GROWERS AND TREE NUMBERS BY REGION - 1967, 1972, and 1978

Region	1967 Survey		1972 Survey		1978 Survey		Percent Change 72/78	
	Number Of Orchards	Number Of Trees	Number Of Orchards	Number Of Trees	Number Of Orchards	Number Of Trees	Number Of Orchards	Number Of Trees
I.....	319	1,074,964	272	1,189,904	281	1,362,784	+ 3	+15
II.....	188	296,071	147	276,350	188	340,801	+28	+23
III.....	197	203,522	144	205,173	181	252,169	+26	+23
IV & V.....	175	196,925	111	142,329	175	186,460	+58	+31
PENNSYLVANIA.....	879	1,771,582	674	1,813,756	825	2,142,214	+22	+18

PENNSYLVANIA: APPLES (COMMERCIAL): COMPARISON OF NUMBER AND SIZE OF ORCHARDS BY REGION - 1967, 1972 and 1978

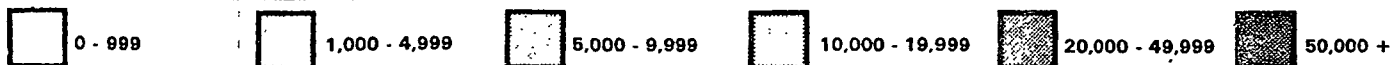
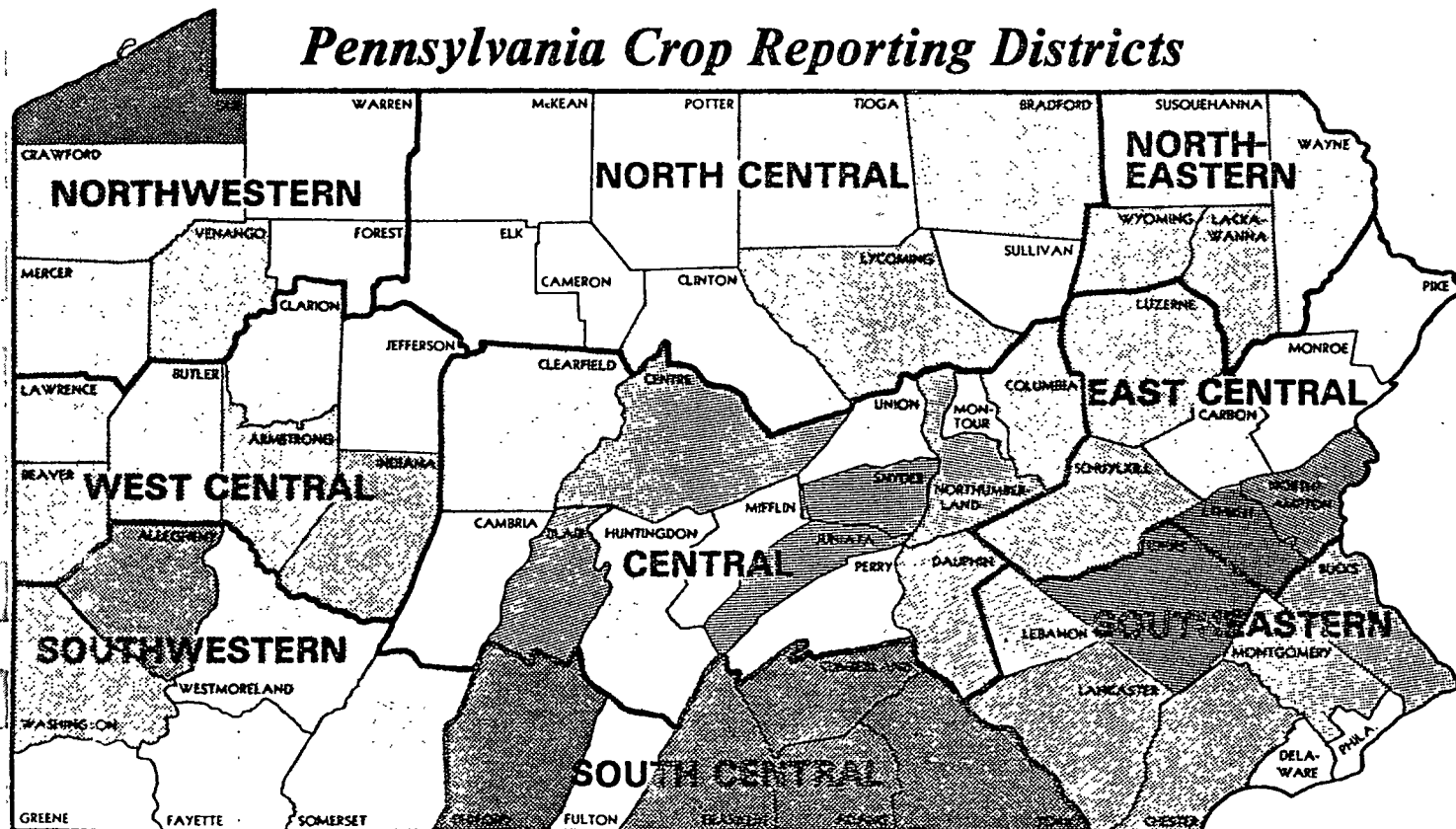
Region	Number Of Orchards			Number Of Orchards In Each Size Group											
				100-499 Trees			500-2,499 Trees			2,500-4,999 Trees			5,000 Trees & Over		
	1967	1972	1978	1967	1972	1978	1967	1972	1978	1967	1972	1978	1967	1972	1978
I.....	319	272	281	75	63	74	142	109	101	54	44	45	48	56	61
II.....	188	147	188	97	70	96	59	44	61	19	21	17	13	12	14
III.....	197	144	181	102	66	90	76	54	63	13	15	15	6	9	13
IV & V.....	175	111	175	89	51	108	71	47	52	11	8	10	4	5	5
PENNSYLVANIA.....	879	674	825	363	250	368	348	254	277	97	88	87	71	82	93

Fruit Production Regions in Pennsylvania



Number of Apple Trees by County - 1978

Pennsylvania Crop Reporting Districts



PENNSYLVANIA: APPLES (TOTAL): GROWERS, ACRES, TYPES OF TREES AND PRODUCTION BY COUNTY AND REGION, 1978

County And Region	Growers	Standard Type		Dwarf, Semi-Dwarf, Spur Type & Trellis		All Types			Production Bushels 2/
		Acres	Total Trees	Acres	Total Trees	Acres	Trees		
							Total	Trees Per Acre	
REGION I:									
Adams.....	161	12,433.8	673,950	1,983.1	255,341	14,416.9	929,291	65	5,157,369
Cumberland.....	16	722.0	39,799	121.5	11,682	843.5	51,481	61	367,563
Franklin.....	48	3,770.9	239,668	495.4	60,127	4,266.3	299,795	70	1,826,464
Perry.....	10	94.5	3,125	9.0	352	103.5	3,477	34	23,611
York.....	55	887.9	35,292	470.3	43,952	1,358.2	79,244	58	512,614
TOTAL.....	290	17,909.1	991,834	3,079.3	371,454	20,988.4	1,363,288	65	7,887,621
REGION II:									
Berks.....	35	399.0	35,577	816.2	51,433	1,215.2	87,010	72	400,863
Bucks.....	20	163.1	10,822	68.1	8,583	231.2	19,405	84	82,853
Carbon, Monroe & Pike.....	9	40.4	1,428	13.2	2,668	53.6	4,096	76	12,970
Chester.....	14	222.2	11,038	149.5	20,028	371.7	31,066	84	152,972
Dauphin.....	9	122.0	6,604	85.7	5,174	207.7	11,778	57	86,001
Delaware.....	8	53.0	1,541	19.1	2,287	72.1	3,828	53	18,621
Lancaster.....	23	224.6	8,779	139.4	12,386	364.0	21,165	58	136,602
Lebanon.....	4	45.0	2,133	31.5	4,622	76.5	6,755	88	33,160
Lehigh.....	20	833.5	71,016	721.7	30,808	1,555.2	101,824	66	284,353
Montgomery.....	16	155.9	4,562	41.3	4,790	197.2	9,352	47	51,726
Northampton.....	6	261.0	15,140	222.0	10,555	483.0	25,695	53	115,648
Schuylkill.....	42	249.0	12,828	63.5	6,952	312.5	19,780	63	128,273
TOTAL.....	206	2,768.7	181,468	2,371.2	160,286	5,139.9	341,754	67	1,504,042
REGION III:									
Bedford.....	21	496.0	24,261	200.0	27,317	696.0	51,578	74	164,992
Blair.....	6	509.0	22,514	130.0	12,580	639.0	35,094	55	227,400
Bradford.....	8	144.5	4,630	34.6	2,279	179.1	6,909	39	34,323
Centre.....	4	89.0	4,682	98.0	11,600	187.0	16,282	67	45,276
Clinton & Potter.....	4	29.1	1,076	1.2	174	30.3	1,250	41	7,689
Columbia.....	15	40.3	1,824	90.5	7,010	130.8	8,834	68	44,684
Huntingdon & Fulton.....	5	35.0	1,039	10.0	1,013	45.0	2,052	46	12,596
Juniata.....	14	307.7	17,397	81.0	7,161	388.7	24,558	63	112,769
Lackawanna.....	10	112.3	5,328	11.8	1,196	124.1	6,524	53	21,717
Luzerne.....	22	144.3	5,541	43.9	3,755	188.2	9,296	49	45,853
Lycoming.....	16	116.3	4,104	59.6	12,543	175.9	16,647	95	50,190
Mifflin.....	4	37.0	1,606	43.0	2,992	80.0	4,598	58	19,153
Montour & Northumberland.....	30	230.7	8,759	58.8	6,171	289.5	14,930	52	73,138
Snyder.....	19	488.8	24,550	145.5	15,754	634.3	40,304	64	217,331
Tioga.....	3	50.0	1,796	.6	60	50.6	1,856	37	5,675
Union.....	6	22.3	1,137	8.1	625	30.4	1,762	58	6,059
Wayne & Susquehanna.....	5	44.0	978	28.0	2,600	72.0	3,578	50	15,826
Wyoming.....	4	150.0	6,296	4.0	650	154.0	6,946	45	24,400
TOTAL.....	191	3,046.3	137,518	1,048.6	115,480	4,094.9	252,998	62	1,129,071
REGION IV:									
Allegheny.....	19	507.0	19,556	169.2	16,382	676.2	35,938	53	94,531
Armstrong.....	4	66.2	3,568	36.0	2,461	102.2	6,029	59	5,955
Beaver.....	16	60.5	2,798	35.8	5,263	96.3	8,061	84	20,536
Butler.....	6	17.0	1,247	12.4	588	29.4	1,835	62	3,510
Cambria.....	4	9.0	369	25.0	600	34.0	969	29	5,175
Clearfield.....	4	40.1	2,187	28.0	2,792	68.1	4,979	73	12,770
Crawford.....	7	17.5	714	27.0	2,070	44.5	2,784	63	6,003
Elk & McKean.....	4	13.5	648	1.2	118	14.0	766	55	4,340
Fayette, Somerset & Greene.....	5	81.0	4,166	15.5	1,349	96.5	5,515	57	44,629
Indiana.....	16	124.7	5,545	74.8	5,469	200.2	11,014	55	10,267
Jefferson & Clarion.....	3	21.0	423	17.0	3,775	38.0	4,198	110	4,385
Lawrence.....	10	59.6	2,491	24.0	1,783	83.6	4,274	51	20,475
Mercer.....	12	56.0	2,475	8.7	601	64.7	3,076	48	14,459
Venango.....	4	65.0	3,961	16.0	1,756	81.0	5,717	71	23,231
Washington.....	17	214.6	13,784	19.3	2,794	233.9	16,578	71	30,700
Westmoreland.....	8	25.2	840	29.5	3,343	54.7	4,183	77	300
TOTAL.....	139	1,377.9	64,772	539.4	51,144	1,917.3	115,916	61	301,266
REGION V:									
Erie.....	62	421.2	22,827	296.7	48,875	717.9	71,702	100	94,522
TOTAL.....	62	421.2	22,827	296.7	48,875	717.9	71,702	100	94,522
PENNSYLVANIA.....	893	25,523.2	1,398,419	7,335.2	747,239	32,858.4	2,145,658	65	10,916,522

1/ Some counties are combined to avoid disclosure of individual operations.

2/ Production in 1977 from acreage maintained for production in 1978.

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PENNSYLVANIA: APPLES (TOTAL): GROWERS, ACRES, TREES AND PRODUCTION BY SIZE OF OPERATION AND REGION, 1978

Size Of Operation (Trees)	Growers		Trees		Acres		Production 1/	
	Number	Percent	Number	Percent	Number	Percent	Bushels	Percent
Region I:								
1-99.....	9	3	504	-	9.0	-	2,143	-
100-199.....	20	7	2,870	-	69.1	-	17,358	-
200-499.....	54	19	18,513	1	347.6	2	138,524	2
500-999.....	49	17	33,042	3	675.8	3	240,183	3
1,000-2,499.....	52	18	86,665	7	1,723.4	8	725,639	9
2,500-4,999.....	45	15	168,236	12	2,984.5	15	1,105,384	14
5,000+.....	61	21	1,053,458	77	15,179.0	72	5,658,330	72
Total.....	290	100	1,363,288	100	20,988.4	100	7,887,621	100
Region II:								
1-99.....	18	9	953	-	15.5	-	5,111	-
100-199.....	45	22	5,823	2	117.4	2	38,576	2
200-499.....	51	25	15,996	5	303.9	6	100,079	7
500-999.....	34	16	22,628	7	413.0	8	114,238	8
1,000-2,499.....	27	13	41,517	12	663.6	13	178,183	12
2,500-4,999.....	17	8	63,222	18	783.2	15	309,622	21
5,000+.....	14	7	191,615	56	2,843.3	56	758,233	50
Total.....	206	100	341,754	100	5,139.9	100	1,504,042	100
Region III:								
1-99.....	15	8	829	-	18.0	-	5,470	-
100-199.....	48	24	6,447	3	141.9	4	33,826	3
200-499.....	42	21	13,861	5	284.2	7	63,084	6
500-999.....	34	17	24,192	10	551.3	13	121,351	11
1,000-2,499.....	29	15	45,345	18	908.2	22	227,441	20
2,500-4,999.....	15	8	53,422	21	687.0	17	220,017	19
5,000+.....	13	7	108,902	43	1,504.3	37	457,882	41
Total.....	196	100	252,998	100	4,094.9	100	1,129,071	100
Region IV:								
1-99.....	10	7	507	-	15.0	1	1,645	1
100-199.....	40	29	6,197	5	132.2	7	30,935	10
200-499.....	46	33	15,898	14	291.8	15	42,072	14
500-999.....	18	13	13,470	12	228.8	12	58,540	19
1,000-2,499.....	16	12	26,449	23	415.5	22	73,783	25
2,500-4,999.....	9	6	53,395	46	834.0	43	94,291	31
5,000+.....	2/	-	-	-	-	-	-	-
Total.....	139	100	115,916	100	1,917.3	100	301,266	100
Region V:								
1-99.....	16	26	651	1	10.0	1	751	1
100-199.....	9	14	1,586	2	20.0	3	3,512	4
200-499.....	13	21	5,936	8	77.1	11	8,564	9
500-999.....	7	11	5,393	8	81.7	11	16,267	17
1,000-2,499.....	11	18	18,236	25	193.7	27	16,590	18
2,500-4,999.....	3	5	11,815	17	169.4	24	18,088	19
5,000+.....	3	5	28,085	39	166.0	23	30,750	32
Total.....	62	100	71,702	100	717.9	100	94,522	100
All Regions:								
1-99.....	68	8	3,444	-	67.5	0	15,120	-
100-199.....	162	18	22,723	1	480.6	1	124,207	1
200-499.....	206	23	70,204	3	1,304.6	4	352,383	3
500-999.....	142	16	98,725	5	1,950.6	6	550,579	5
1,000-2,499.....	135	15	218,212	10	3,904.4	12	1,221,636	11
2,500+.....	180	20	1,732,350	81	25,150.7	77	8,652,597	80
PENNSYLVANIA.....	893	100	2,145,658	100	32,858.4	100	10,916,522	100

1/ Production in 1977 from acreage maintained for production in 1978.

2/ Combined with the 2,500-4,999 size group to avoid disclosure of individual operations.

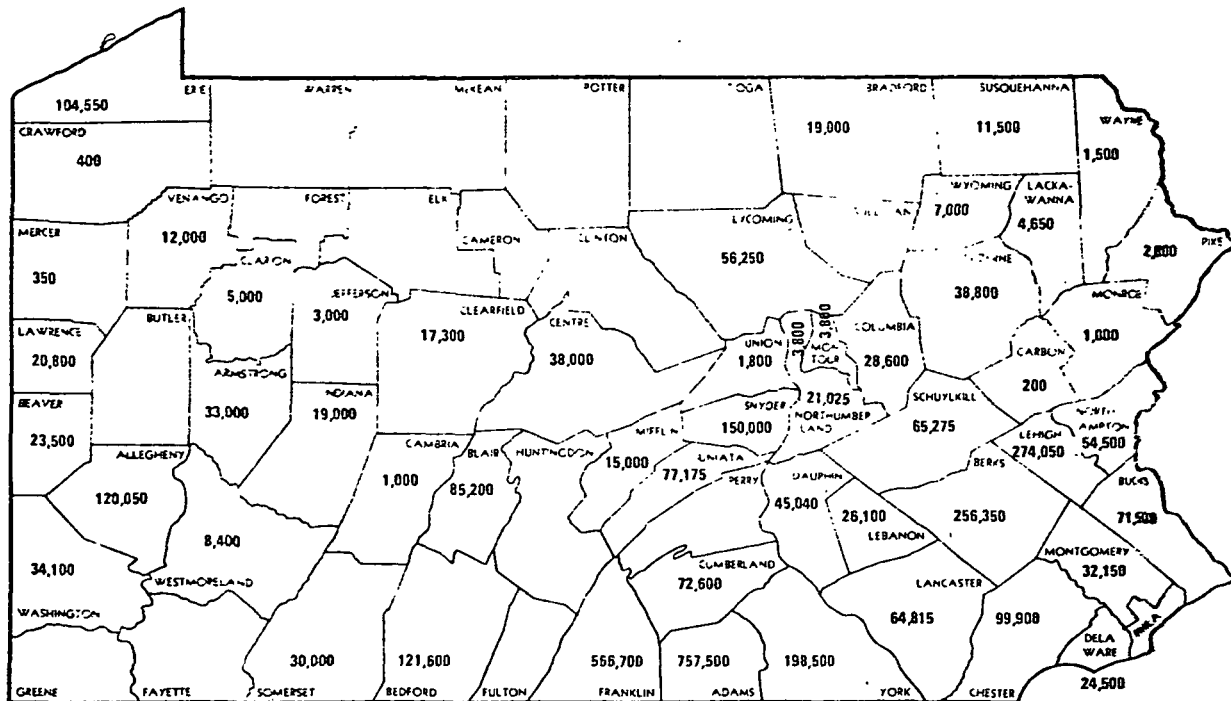
PENNSYLVANIA: APPLES - COMPARISON OF COMMERCIAL & NON-COMMERCIAL GROWER AND TREE NUMBERS 1967, 1972, 1978

Trees	Number Of Growers			Number Of Trees		
	1967	1972	1978	1967	1972	1978
1-99 1/.....	89	41	68	3,303	1,852	3,444
100+.....	879	674	825	1,771,522	1,813,756	2,142,214
Total 1/.....	968	715	893	1,774,885	1,815,608	2,145,658

1/ Includes trees in orchards classified as commercial (100+ trees) for any fruit.

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PENNSYLVANIA: APPLE COLD STORAGE BUSHEL CAPACITY BY COUNTY AND DISTRICT - 1978



PENNSYLVANIA: APPLE COLD STORAGE CAPACITY BY DISTRICT - 1978

District	Bushe1	District	Bushe1	District	Bushe1
(1) Northwestern.....	117,300	(4) West Central.....	104,300	(7) Southwestern.....	192,500
(2) North Central.....	75,250	(5) Central.....	483,940	(8) South Central.....	1,716,900
(3) Northeastern.....	24,650	(6) East Central.....	435,825	(9) Southeastern.....	575,315

Total Apple Cold Storage Bushel Capacity - 3,726,030

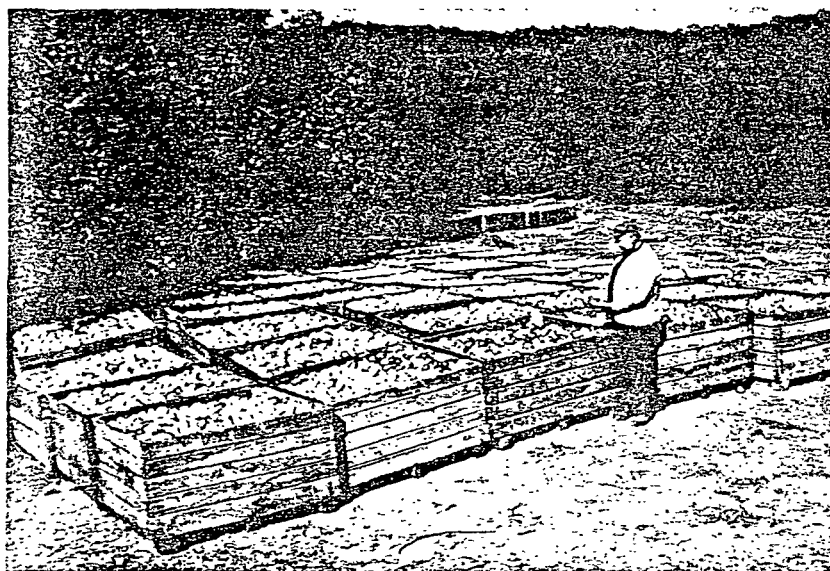


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PENNSYLVANIA: APPLES (COMMERCIAL): PRODUCTION, DISPOSITION AND VALUE, 1930-1978

Year	Production 1/		Utilization						Price Per Pound 3/	Value Of Utilized Production
	Total	Utilized	Sales							
			Fresh & Home Use	Juice	Canned	Frozen	Other Sales	All Processed		
			Million Pounds						Cents	Thous.Dols
1930.....	424.0	424.0	100.5	2/	-	-	323.5	323.5	1.10	10,704
1940.....	359.0	348.5	225.3	2/	61.3	-	61.9	123.2	.60	4,728
1950.....	263.0	263.0	141.5	2/	67.1	5.8	48.6	121.5	1.60	9,718
1960.....	322.0	322.0	150.4	2/	125.4	19.7	26.5	171.6	3.90	12,526
1970.....	540.0	510.0	195.0	78.9	225.1	2.6	8.4	315.0	3.80	19,329
1971.....	540.0	505.0	185.0	124.4	186.8	1.5	7.3	320.0	3.90	19,695
1972.....	400.0	400.0	169.9	64.0	163.7	.8	1.6	230.1	5.40	21,680
1973.....	500.0	500.0	186.9	50.1	250.1	4.4	8.5	313.1	8.70	43,500
1974.....	480.0	480.0	168.1	62.7	222.1	3.8	23.3	311.9	8.30	39,840
1975.....	550.0	503.5	228.2	62.2	201.5	3.9	7.7	275.3	5.90	29,707
1976.....	360.0	359.0	151.5	69.2	128.5	6.1	3.7	207.5	8.30	29,797
1977.....	460.0	460.0	166.1	89.9	186.9	10.4	6.7	293.9	9.10	41,860
1978.....	400.0	400.0	158.9	70.3	151.8	3.2	15.8	241.1	8.90	35,600

1/ Total production is the quantity actually harvested plus quantities not harvested because of economic reasons. Utilized production is the amount sold plus the quantities used at home or held in storage. When total and utilized production are equal, economic abandonment and cullage quantities are considered at a "normal" level.

2/ Juice is included in "other sales".

3/ Fresh and processing prices combined.

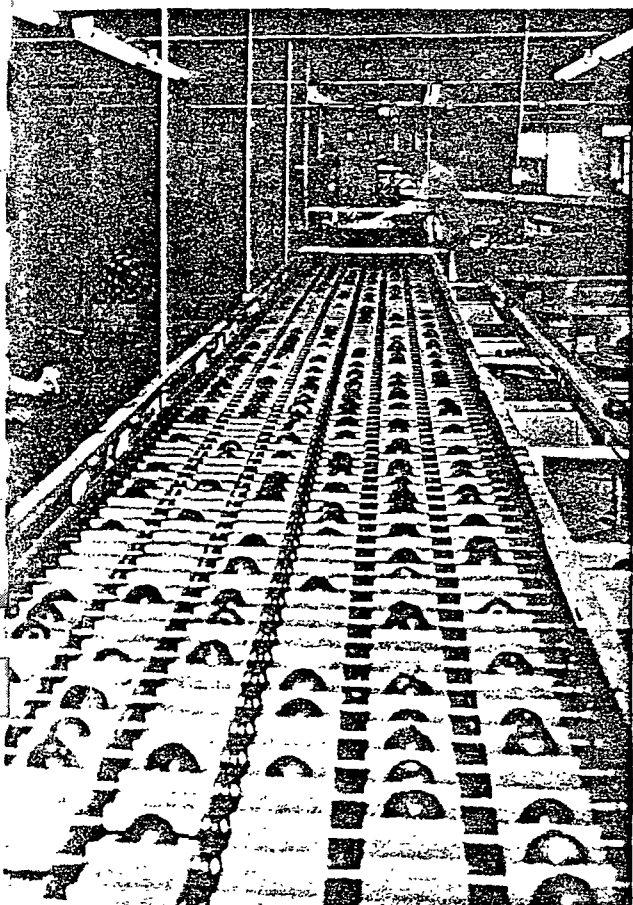


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PENNSYLVANIA: APPLES (TOTAL): COMPARISON OF ORCHARDS AND TREES OF
ALL AGES BY COUNTIES, 1967, 1972 AND 1978

County & District	Tree Survey, 1967		Tree Survey, 1972 1/		Tree Survey, 1978	
	Number Of Orchards	Total Trees	Number Of Orchards	Total Trees	Number Of Orchards	Total Trees
Crawford.....	2	1,450	-	-	7	2,784
Erie.....	94	52,164	64	61,011	62	71,702
Forest.....	-	-	-	-	-	-
Mercer.....	4	29,972	-	-	12	3,076
Venango.....	6	10,005	4	9,351	4	5,717
Warren.....	-	-	-	-	-	-
NORTHWESTERN, TOTAL.....	106	93,591	-	-	85	83,279
Bradford.....	8	4,334	5	3,253	8	6,909
Cameron.....	-	-	-	-	-	-
Clinton.....	3	2/	4	1,122	2	2/
Elk.....	-	-	-	-	3	501
Lycoming.....	8	8,973	3	7,416	16	16,647
McKean.....	3	944	-	-	1	2/
Potter.....	1	2/	-	-	2	2/
Sullivan.....	-	-	-	-	-	-
Tioga.....	5	2,501	-	-	3	1,856
NORTH CENTRAL, TOTAL.....	28	17,684	-	-	35	27,428
Lackawanna.....	11	3,294	8	2,388	10	6,524
Susquehanna.....	3	1,920	-	-	2	3/
Wayne.....	5	1,778	-	-	3	3,578
Wyoming.....	9	6,428	4	5,309	4	6,946
NORTHEASTERN, TOTAL.....	28	13,420	-	-	19	17,048
Armstrong.....	3	5,037	3	4,405	4	6,029
Beaver.....	14	10,919	9	7,013	16	8,061
Butler.....	6	17,633	-	-	6	1,835
Clarion.....	1	2/	-	-	2	2/
Indiana.....	9	3,435	6	5,305	16	11,014
Jefferson.....	2	2/	-	-	1	2/
Lawrence.....	13	5,591	4	2,136	10	4,274
WEST CENTRAL, TOTAL.....	48	45,758	-	-	55	35,411
Blair.....	12	38,279	10	41,594	6	35,094
Cambria.....	2	206	-	-	4	969
Centre.....	3	10,340	3	16,046	4	16,282
Clearfield.....	5	3,147	-	-	4	4,979
Columbia.....	13	5,471	12	6,639	15	8,834
Dauphin.....	5	13,357	5	11,071	9	11,778
Huntingdon.....	4	5,078	-	-	4	1,502
Juniata.....	15	15,234	12	19,757	14	24,558
Mifflin.....	6	3,489	3	2,613	4	4,598
Montour.....	2	362	3	444	2	3/
Northumberland.....	25	16,063	19	10,769	28	14,930
Perry.....	6	3,088	3	2,539	10	3,477
Snyder.....	25	28,048	18	28,358	19	40,304
Union.....	3	555	-	-	6	1,762
CENTRAL, TOTAL.....	126	142,717	-	-	129	169,067
Carbon.....	5	894	4	566	6	2,661
Lehigh.....	26	81,783	17	75,516	20	101,824
Luzerne.....	23	11,477	16	6,906	22	9,296
Monroe.....	3	668	-	-	2	2/
Northampton.....	10	10,450	7	18,410	6	25,695
Pike.....	-	-	-	-	1	2/
Schuylkill.....	42	23,166	30	17,301	42	19,780
EAST CENTRAL, TOTAL.....	109	128,438	-	-	99	160,691
Allegheny.....	20	30,444	14	7,150	19	35,938
Fayette.....	2	2,227	-	-	1	2/
Greene.....	2	408	-	-	2	2/
Somerset.....	3	5,380	-	-	2	2/
Washington.....	17	12,613	6	6,886	17	16,578
Westmoreland.....	6	3,387	4	2,324	8	4,183
SOUTHWESTERN, TOTAL.....	50	54,459	-	-	49	62,214
Adams.....	183	693,828	165	806,145	161	929,291
Bedford.....	26	39,648	20	45,239	21	52,128
Cumberland.....	15	42,225	14	48,204	16	51,481
Franklin.....	78	277,425	50	275,991	48	299,795
Fulton.....	1	3/	-	-	1	3/
York.....	56	59,192	44	57,305	55	79,244
SOUTH CENTRAL, TOTAL.....	359	1,112,318	-	-	302	1,411,939
Berks.....	39	86,799	34	80,781	35	87,010
Bucks.....	10	9,312	8	11,417	20	19,405
Chester.....	15	29,047	11	19,426	14	31,066
Delaware.....	6	2/	3	2,655	8	3,828
Lancaster.....	23	20,390	18	21,153	23	21,165
Lebanon.....	6	11,149	4	9,249	4	6,755
Montgomery.....	14	6,569	1	6,105	16	9,352
Philadelphia.....	1	2/	-	-	-	-
SOUTHEASTERN, TOTAL.....	114	166,500	-	-	120	178,581
TOTAL, OTHER.....	-	-	30	46,340	-	-
PENNSYLVANIA.....	958	1,774,885	715	1,815,608	893	2,145,656

1/ Comparable data only available on counties listed for 1972 survey. 2/ Not published separately to avoid disclosure of individual operations. 3/ Susquehanna County combined with Wayne County; Fulton County combined with Bedford County; Montour County combined with Northumberland County to avoid disclosure of individual operations.

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PENNSYLVANIA: APPLES (TOTAL): NUMBER OF TREES BY COUNTIES AND AGE GROUPS, 1978 1/

County And District	Number Of Trees Maintained For Production According To Year Set Out					Percent Of Total
	1975-1977 (1-3 Yrs.)	1972-1974 (4-6 Yrs.)	1957-1971 (7-21 Yrs.)	1956 & Earlier (22 Yrs +)	Total All Ages	
Crawford.....	281	70	2,002	431	2,784	.13
Erie.....	15,688	17,696	26,519	11,799	71,702	3.34
Forest.....	-	-	-	-	-	-
Mercer.....	460	175	1,946	495	3,076	.14
Venango.....	2,075	506	2,035	1,101	5,717	.27
Warren.....	-	-	-	-	-	-
NORTHWESTERN, TOTAL.....	18,504	18,447	32,502	13,826	83,279	3.88
Bradford.....	2,116	398	1,382	3,013	6,909	.32
Cameron.....	-	-	-	-	-	-
Elk.....	-	261	115	125	501	.02
Lycoming.....	10,389	678	2,770	2,810	16,647	.78
Potter, Clinton & McKean.....	45	10	184	1,276	1,515	.07
Sullivan.....	-	-	-	-	-	-
Tioga.....	31	-	18	1,807	1,856	.09
NORTH CENTRAL, TOTAL.....	12,581	1,347	4,469	9,031	27,428	1.28
Lackawanna.....	596	635	1,388	3,905	6,524	.31
Wayne & Susquehanna.....	853	125	1,742	858	3,578	.17
Wyoming.....	700	101	222	5,923	6,946	.32
NORTHEASTERN, TOTAL.....	2,149	861	3,352	10,686	17,048	.80
Armstrong.....	825	75	3,718	1,411	6,029	.28
Beaver.....	1,118	1,279	4,145	1,519	8,061	.37
Butler.....	995	327	221	292	1,835	.09
Clarion & Jefferson.....	650	3,125	140	283	4,198	.20
Indiana.....	1,831	239	7,680	1,264	11,014	.51
Lawrence.....	347	191	1,843	1,893	4,274	.20
WEST CENTRAL, TOTAL.....	5,766	5,236	17,747	6,662	35,411	1.65
Blair.....	3,450	2,375	24,018	5,251	35,094	1.64
Cambria.....	-	20	668	281	969	.05
Centre.....	1,255	7,275	5,334	2,418	16,282	.76
Clearfield.....	2,325	145	2,013	496	4,979	.23
Columbia.....	2,259	2,215	3,305	1,055	8,834	.41
Dauphin.....	876	1,428	6,880	2,594	11,778	.55
Huntingdon.....	220	130	812	340	1,502	.07
Juniata.....	4,773	1,934	13,797	4,054	24,558	1.15
Mifflin.....	100	100	3,548	850	4,598	.21
Montour & Northumberland.....	3,036	2,295	7,619	1,980	14,930	.69
Perry.....	3	225	1,666	1,583	3,477	.16
Snyder.....	8,921	6,239	16,709	8,435	40,304	1.88
Union.....	384	2	623	753	1,762	.08
CENTRAL, TOTAL.....	27,602	24,383	86,992	30,090	169,067	7.88
Lehigh.....	17,111	11,128	51,684	21,901	101,824	4.75
Luzerne.....	1,427	769	2,164	4,936	9,296	.43
Northampton.....	4,065	5,110	15,584	936	25,695	1.20
Pike, Carbon & Monroe.....	255	2,041	379	1,421	4,096	.19
Schuylkill.....	3,993	2,932	8,787	4,068	19,780	.92
EAST CENTRAL, TOTAL.....	26,851	21,980	78,598	33,262	160,691	7.49
Allegheny.....	2,859	1,501	25,304	6,274	35,938	1.67
Somerset, Greene & Fayette.....	260	224	4,957	74	5,515	.26
Washington.....	1,054	1,169	12,958	1,397	16,578	.77
Westmoreland.....	1,611	180	2,011	381	4,183	.20
SOUTHWESTERN, TOTAL.....	5,784	3,074	45,230	8,126	62,214	2.90
Adams.....	118,428	87,794	455,096	267,973	929,291	43.31
Cumberland.....	5,414	4,246	16,813	25,008	51,481	2.40
Franklin.....	35,512	50,522	114,688	99,073	299,795	13.97
Fulton & Bedford.....	12,930	4,240	28,167	6,791	52,128	2.43
York.....	13,463	10,837	39,196	15,748	79,244	3.69
SOUTH CENTRAL.....	185,747	157,639	653,960	414,593	1,411,939	65.80
Berks.....	11,677	12,711	41,363	21,259	87,010	4.05
Bucks.....	2,703	3,831	6,362	6,509	19,405	.90
Chester.....	7,862	6,237	11,815	5,152	31,066	1.45
Delaware.....	988	8	1,478	1,354	3,828	.18
Lancaster.....	2,733	3,551	9,368	5,513	21,165	.99
Lebanon.....	485	2,247	2,812	1,211	6,755	.31
Montgomery.....	512	1,112	4,415	3,313	9,352	.44
Philadelphia.....	-	-	-	-	-	-
SOUTHEASTERN, TOTAL.....	26,960	29,697	77,613	44,311	178,581	8.32
PENNSYLVANIA.....	311,944	262,664	1,000,463	570,587	2,145,658	100.00
PERCENT OF TOTAL TREES.....	14.5	12.3	46.6	26.6	100.0	-

1/ Some counties are combined to avoid disclosure of individual operations.

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PENNSYLVANIA: APPLES (TOTAL): NUMBER OF STANDARD SIZE TREES BY COUNTIES AND AGE GROUPS - 1978 1/

County & District	Number Of Trees Maintained For Production According To Year Set Out					Percent Of Total
	1975-1977 (1-3 Yrs.)	1972-1974 (4-6 Yrs.)	1957-1971 (7-21 Yrs.)	1956 & Earlier (22 Yrs +)	Total All Ages	
Crawford.....	56	70	157	431	714	.05
Erie.....	2,594	1,705	8,845	9,683	22,827	1.63
Forest.....	-	-	-	-	-	-
Mercer.....	-	135	1,845	495	2,475	.18
Venango.....	1,000	-	1,860	1,101	3,961	.28
Warren.....	-	-	-	-	-	-
NORTHWESTERN, TOTAL.....	3,650	1,910	12,707	11,710	29,977	2.14
Bradford.....	515	185	1,087	2,843	4,630	.33
Cameron.....	-	-	-	-	-	-
Elk.....	-	213	115	125	453	.03
Lycoming.....	105	5	1,184	2,810	4,104	.30
Potter, Clinton & McKean.....	25	-	20	1,226	1,271	.09
Sullivan.....	-	-	-	-	-	-
Tioga.....	-	-	-	1,796	1,796	.13
NORTH CENTRAL, TOTAL.....	645	403	2,406	8,800	12,254	.88
Lackawanna.....	85	110	1,228	3,905	5,328	.38
Wayne & Susquehanna.....	-	-	120	858	978	.07
Wyoming.....	50	101	222	5,923	6,296	.45
NORTHWESTERN, TOTAL.....	135	211	1,570	10,686	12,602	.90
Armstrong.....	125	75	1,957	1,411	3,568	.25
Beaver.....	95	65	1,540	1,098	2,798	.20
Butler.....	485	315	155	292	1,247	.09
Clarion & Jefferson.....	-	-	140	283	423	.03
Indiana.....	94	127	4,060	1,264	5,545	.40
Lawrence.....	102	20	476	1,893	2,491	.18
WEST CENTRAL, TOTAL.....	901	602	8,328	6,241	16,072	1.15
Blair.....	-	-	17,263	5,251	22,514	1.61
Cambria.....	-	20	68	281	369	.03
Centre.....	35	120	2,139	2,388	4,682	.33
Clearfield.....	-	-	1,691	496	2,187	.16
Columbia.....	35	57	715	1,017	1,824	.13
Dauphin.....	87	79	3,894	2,544	6,604	.47
Huntingdon.....	-	60	89	340	489	.04
Juniata.....	761	320	12,262	4,054	17,397	1.24
Mifflin.....	100	100	566	840	1,606	.11
Montour & Northumberland.....	329	452	5,998	1,980	8,759	.63
Perry.....	-	143	1,439	1,543	3,125	.22
Snyder.....	723	701	14,935	8,191	24,550	1.76
Union.....	374	2	8	753	1,137	.08
CENTRAL, TOTAL.....	2,444	2,054	61,067	29,678	95,243	6.81
Lehigh.....	7,561	7,264	34,625	21,566	71,016	5.08
Luzerne.....	100	34	572	4,835	5,541	.40
Northampton.....	1,205	1,180	11,821	934	15,140	1.08
Carbon, Monroe & Pike.....	12	12	3	1,401	1,428	.10
Schuylkill.....	176	991	7,610	4,051	12,828	.92
EAST CENTRAL, TOTAL.....	9,054	9,481	54,631	32,787	105,953	7.58
Allegheny.....	2,346	596	10,501	6,113	19,556	1.40
Fayette, Greene & Somerset.....	100	-	4,017	49	4,166	.30
Washington.....	19	425	11,943	1,397	13,784	.98
Westmoreland.....	-	6	453	381	840	.06
SOUTHWESTERN, TOTAL.....	2,465	1,027	26,914	7,940	38,346	2.74
Adams.....	15,879	35,054	358,580	264,437	673,950	48.19
Cumberland.....	364	1,496	15,751	22,188	39,799	2.85
Franklin.....	16,137	29,373	99,367	94,791	239,668	17.14
Bedford & Fulton.....	100	140	18,089	6,482	24,811	1.78
York.....	854	1,772	18,551	14,115	35,292	2.52
SOUTH CENTRAL, TOTAL.....	33,334	67,835	510,338	402,013	1,013,520	72.48
Berks.....	428	3,642	13,223	18,284	35,577	2.54
Bucks.....	111	883	3,393	6,435	10,822	.77
Chester.....	85	185	6,286	4,482	11,038	.79
Delaware.....	80	-	152	1,309	1,541	.11
Lancaster.....	172	228	3,009	5,370	8,779	.63
Lebanon.....	-	75	847	1,211	2,133	.15
Montgomery.....	10	130	1,269	3,153	4,562	.33
Philadelphia.....	-	-	-	-	-	-
SOUTHEASTERN, TOTAL.....	886	5,143	28,179	40,244	74,452	5.32
PENNSYLVANIA.....	53,514	88,666	706,140	550,099	1,398,419	100.00
PERCENT OF TOTAL TREES.....	3.8	6.4	50.5	39.3	100.0	-

1/ Some counties are combined to avoid disclosure of individual operations.

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PENNSYLVANIA: APPLES (TOTAL): NUMBER OF SIZE CONTROLLED TREES BY COUNTIES AND AGE GROUPS, 1978 1/

County & District	Number Of Trees Maintained For Production According To Year Set Out					Percent Of Total
	1975-1977 (1-3 Yrs.)	1972-1974 (4-6 Yrs.)	1957-1971 (7-21 Yrs.)	1956 & Earlier (22 Yrs +)	Total All Ages	
Crawford.....	225	-	1,845	-	2,070	.28
Erie.....	13,094	15,991	17,674	2,116	48,875	6.54
Forest.....	-	-	-	-	-	-
Mercer.....	460	40	101	-	601	.08
Venango.....	1,075	506	175	-	1,756	.23
Warren.....	-	-	-	-	-	-
NORTHWESTERN, TOTAL.....	14,854	16,537	19,795	2,116	53,302	7.13
Bradford.....	1,601	213	295	170	2,279	.30
Cameron.....	-	-	-	-	-	-
Elk.....	-	48	-	-	48	.01
Lycoming.....	10,284	673	1,586	-	12,543	1.68
Potter, Clinton & McKean.....	20	10	164	50	244	.03
Sullivan.....	-	-	-	-	-	-
Tioga.....	31	-	18	11	60	.01
NORTH CENTRAL, TOTAL.....	11,936	944	2,063	231	15,174	2.03
Lackawanna.....	511	525	160	-	1,196	.16
Wayne & Susquehanna.....	853	125	1,622	-	2,600	.35
Wyoming.....	650	-	-	-	650	.08
NORTHEASTERN, TOTAL.....	2,014	650	1,782	-	4,446	.59
Armstrong.....	700	-	1,761	-	2,461	.33
Beaver.....	1,023	1,214	2,605	421	5,263	.70
Butler.....	510	12	66	-	588	.08
Clarion & Jefferson.....	650	3,125	-	-	3,775	.51
Indiana.....	1,737	112	3,620	-	5,469	.73
Lawrence.....	245	171	1,367	-	1,783	.24
WEST CENTRAL, TOTAL.....	4,865	4,634	9,419	421	19,339	2.59
Blair.....	3,450	2,375	6,755	-	12,580	1.69
Cambria.....	-	-	600	-	600	.08
Centre.....	1,220	7,155	3,195	30	11,600	1.55
Clearfield.....	2,325	145	322	-	2,792	.37
Columbia.....	2,224	2,158	2,590	38	7,010	.94
Dauphin.....	789	1,349	2,986	50	5,174	.69
Huntingdon.....	220	70	723	-	1,013	.14
Juniata.....	4,012	1,614	1,535	-	7,161	.96
Mifflin.....	-	-	2,982	10	2,992	.40
Montour & Northumberland.....	2,707	1,843	1,621	-	6,171	.82
Perry.....	3	82	227	40	352	.05
Snyder.....	8,198	5,538	1,774	244	15,754	2.11
Union.....	10	-	615	-	625	.08
CENTRAL, TOTAL.....	25,158	22,329	25,925	412	73,824	9.88
Lehigh.....	9,550	3,864	17,059	335	30,808	4.13
Luzerne.....	1,327	735	1,592	101	3,755	.50
Monroe, Carbon & Pike.....	243	2,029	376	20	2,668	.36
Northampton.....	2,860	3,930	3,763	2	10,555	1.41
Schuylkill.....	3,817	1,941	1,177	17	6,952	.93
EAST CENTRAL, TOTAL.....	17,797	12,499	23,967	475	54,738	7.33
Allegheny.....	513	905	14,803	161	16,382	2.19
Somerset, Greene & Fayette.....	160	224	940	25	1,349	.18
Washington.....	1,035	744	1,015	-	2,794	.37
Westmoreland.....	1,611	174	1,558	-	3,343	.45
SOUTHWESTERN, TOTAL.....	3,319	2,047	18,316	186	23,868	3.19
Adams.....	102,549	52,740	96,516	3,536	255,341	34.17
Bedford & Fulton.....	12,830	4,100	10,078	309	27,317	3.66
Cumberland.....	5,050	2,750	1,062	2,820	11,682	1.56
Franklin.....	19,375	21,149	15,321	4,282	60,127	8.05
York.....	12,609	9,065	20,645	1,633	43,952	5.88
SOUTH CENTRAL, TOTAL.....	152,413	89,804	143,622	12,580	398,419	53.32
Berks.....	11,249	9,069	28,140	2,975	51,433	6.88
Bucks.....	2,592	2,948	2,969	74	8,583	1.15
Chester.....	7,777	6,052	5,529	670	20,028	2.68
Delaware.....	908	8	1,326	45	2,287	.31
Lancaster.....	2,561	3,323	6,359	143	12,386	1.66
Lebanon.....	485	2,172	1,965	-	4,622	.62
Montgomery.....	502	982	3,146	160	4,790	.64
Philadelphia.....	-	-	-	-	-	-
SOUTHEASTERN, TOTAL.....	26,074	24,554	49,434	4,067	104,129	13.94
PENNSYLVANIA.....	258,430	173,998	294,323	20,488	747,239	100.00
PERCENT OF TOTAL TREES.....	34.6	23.3	39.4	2.7	100.0	-

1/ Some counties are combined to avoid disclosure of individual operations.

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PENNSYLVANIA: APPLES (TOTAL): ALL TYPES OF TREES BY VARIETY AND AGE GROUPS - 1978

Variety	1975-1977 (1-3 Yrs.)	1972-1974 (4-6 Yrs.)	1957-1971 (7-21 Yrs.)	1956 & Earlier (22 Yrs +)	Total All Ages	Percent Of Total
SUMMER:						
Beacon.....	1,644	1,464	7,759	131	10,998	.5
Early Blaze.....	359	1,128	1,635	240	3,372	.2
Early McIntosh.....	2,866	1,348	3,817	1,255	9,286	.4
Lodi.....	555	464	2,698	913	4,630	.2
Rambo.....	861	1,166	7,587	7,143	16,757	.8
Other Summer.....	2,364	1,055	4,125	1,916	9,460	.5
TOTAL SUMMER.....	8,659	6,625	27,621	11,598	54,503	2.6
FALL:						
Grimes Golden.....	117	112	1,539	2,876	4,644	.2
Jonathan.....	7,658	5,565	44,216	23,793	81,232	3.8
Paulared (Size Controlled Only)...	3,890	426	775	-	5,091	.2
Smokehouse.....	195	556	1,467	1,260	3,478	.2
Tydemans Red (Size Controlled Only)	926	7,928	1,669	-	10,523	.5
Other Fall.....	2,425	1,280	5,198	2,642	11,545	.5
TOTAL FALL.....	15,211	15,867	54,864	30,571	116,513	5.4
WINTER:						
Cortland.....	6,168	4,180	10,678	9,740	30,766	1.4
Empire (Size Controlled Only)....	2,339	216	620	-	3,775	.2
Golden Delicious.....	34,117	35,299	176,463	95,881	341,760	15.9
Greenings.....	2,945	1,976	8,285	2,888	16,094	.8
Idared.....	7,593	1,652	4,532	540	14,417	.7
Macoun.....	1,369	870	1,153	520	3,912	.2
McIntosh.....	17,068	12,861	32,512	18,517	80,958	3.8
Northern Spy.....	3,845	1,699	2,920	4,565	13,029	.6
Red Delicious.....	124,537	109,791	288,282	72,627	595,237	27.7
Rome Red.....	22,666	18,923	88,453	38,136	168,178	7.8
Rome Regular.....	10,607	7,551	25,109	33,008	76,275	3.6
Spartan.....	1,746	1,067	3,143	7	5,963	.3
Stayman.....	19,342	12,374	71,140	79,702	183,058	8.5
Winesap.....	2,366	2,590	13,269	5,923	24,148	1.1
York Red.....	11,695	12,317	90,443	46,567	161,022	7.5
York Regular.....	16,523	13,826	96,686	115,727	242,767	11.3
Other Winter.....	1,943	2,980	4,290	4,070	13,283	.6
TOTAL WINTER.....	288,074	240,172	917,978	528,418	1,974,642	92.0
TOTAL APPLES.....	311,944	262,664	1,000,463	570,587	2,145,658	100.0

PENNSYLVANIA: APPLES (TOTAL): TOTAL TREES, PERCENT AGE BREAKDOWN OF TREES,
PRODUCTION AND YIELD BY VARIETY 1978

Variety	Total Trees	Percent Of Trees Planted In:				Production 1/	Yield Per Tree 2/
		1975-1977 (1-3 Yrs.)	1972-1974 (4-6 Yrs.)	1957-1971 (7-21 Yrs.)	1956 & Earlier (22 Yrs. +)		
		Percent	Percent	Percent	Percent	BusheIs	BusheIs
Beacon.....	10,998	15	13	71	1	28,502	3.0
Cortland.....	30,766	20	13	35	32	126,430	5.1
Early Blaze.....	3,372	11	34	48	7	5,125	1.7
Early McIntosh.....	9,286	31	15	41	13	31,460	4.9
Empire (Size Controlled Only)...	3,775	78	6	16	-	1,700	2.0
Golden Delicious.....	341,760	10	10	52	28	2,152,577	7.0
Greenings.....	16,094	18	12	52	18	54,901	4.2
Grimes Golden.....	4,644	3	2	33	62	34,719	7.7
Idared.....	14,417	53	12	31	4	31,101	4.6
Jonathan.....	81,232	10	7	54	29	384,364	5.2
Lodi.....	4,630	12	10	58	20	24,196	5.9
Macoun.....	3,912	35	22	30	13	11,948	4.7
McIntosh.....	80,958	21	16	40	23	302,432	4.7
Northern Spy.....	13,029	30	13	22	35	42,271	4.6
Paulared (Size Controlled Only).	5,091	77	8	15	-	5,147	4.3
Rambo.....	16,757	5	7	45	43	101,726	6.4
Red Delicious.....	595,237	21	18	49	12	1,864,410	4.0
Rome Red.....	168,178	13	11	53	23	919,494	6.3
Rome Regular.....	76,275	14	10	33	43	509,751	7.8
Smokehouse.....	3,478	6	16	42	36	22,125	6.7
Spartan.....	5,963	29	18	53	-	13,393	3.2
Stayman.....	183,058	11	7	39	43	1,108,363	6.8
Tydemans Red (Size Controlled) ..	10,523	9	75	16	-	9,221	1.0
Winesap.....	24,148	10	11	55	24	103,529	4.8
York Red.....	161,022	7	8	56	29	1,160,075	7.8
York Regular.....	242,767	7	6	40	47	1,730,408	7.6
Other Summer.....	9,460	25	11	44	20	34,600	4.9
Other Fall.....	11,545	21	11	45	23	38,973	4.3
Other Winter.....	13,283	15	22	32	31	63,581	5.6
All Varieties.....	2,145,658	14	12	47	27	10,916,522	6.0

1/ Production in 1977 from acreage maintained for production in 1978.

2/ Yield calculations are derived excluding the 1-3 year age category trees.

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PENNSYLVANIA: APPLES (TOTAL): STANDARD TREES BY VARIETY AND AGE GROUPS - 1978

Variety	1975-1977 (1-3 Yrs.)	1972-1974 (4-6 Yrs.)	1957-1971 (7-21 Yrs.)	1956 & Earlier (22 Yrs. +)	Total All Ages
SUMMER					
Beacon (Fenton).....	93	776	3,064	71	4,009
Earliblaze.....	64	297	1,599	65	2,025
Gravenstein.....	-	-	-	-	-
Lodi.....	96	119	1,764	888	2,867
Rambo.....	394	777	6,761	7,128	15,060
Strawberry.....	520	-	78	210	808
Yellow Transparent.....	32	5	304	338	679
Early McIntosh.....	118	302	2,121	1,219	3,760
Other Summer.....	119	330	1,739	1,297	3,485
TOTAL SUMMER.....	1,441	2,606	17,430	11,216	32,693
FALL					
Winter Banana.....	-	-	-	-	-
Grimes Golden.....	30	45	1,299	2,864	4,238
Jonathan.....	1,201	2,794	32,442	23,173	59,610
Wealthy.....	-	-	46	705	751
Tydemans Red.....	-	-	-	-	-
Smokehouse.....	15	91	1,188	1,258	2,552
Other Fall.....	452	375	2,764	1,905	5,496
TOTAL FALL.....	1,698	3,305	37,739	29,905	72,647
WINTER					
Baldwin.....	-	-	107	1,562	1,669
Cortland.....	757	583	6,759	8,025	16,124
Delicious (Red).....	17,635	22,653	183,165	67,255	290,768
Golden Delicious.....	8,224	11,899	123,377	93,606	237,706
Idared.....	113	620	2,497	540	3,770
Macoun.....	-	210	750	475	1,435
McIntosh.....	1,145	1,828	19,459	18,347	40,779
Northern Spy.....	1,495	240	1,872	4,470	8,077
N.W. Greenling.....	-	1,976	8,082	2,888	12,946
Opalescent.....	-	50	20	469	539
Spartan.....	-	66	2,246	7	2,319
Stayman.....	1,709	2,879	56,524	78,747	139,859
Turley.....	-	-	484	697	1,181
Lowery.....	-	-	200	541	741
Red Gold.....	-	-	654	22	676
Rome Red.....	8,775	12,420	63,869	36,889	121,953
Rome Regular.....	3,859	5,708	23,739	32,843	66,149
York Red.....	3,485	10,227	69,432	41,283	124,427
York Regular.....	1,661	9,730	76,844	115,006	203,241
Other Winter.....	41	303	1,267	762	2,373
Winesap.....	816	1,363	9,624	4,544	16,347
TOTAL WINTER.....	50,375	82,755	650,971	508,978	1,293,079
TOTAL STANDARD.....	53,514	88,666	706,140	550,099	1,398,419



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BLACK AND WHITE PHOTOGRAPH

Photo Credit: Tom Piper

PENNSYLVANIA: APPLES (TOTAL): SIZE CONTROLLED TREES BY
VARIETY AND AGE GROUPS - 1978

Variety	1975-1977 (1-3 Years)	1972-1974 (4-6 Years)	1957-1971 (7-21 Years)	1956 & Earlier (22 Years +)	Total All Ages
SUMMER:					
Beacon (Fenton).....	1,546	688	4,695	60	6,989
Earliblaze.....	305	831	36	175	1,347
Lodi.....	459	345	934	25	1,763
Jersey Mac.....	695	160	-	-	855
Early McIntosh.....	2,748	1,046	1,696	36	5,526
Ottawa - T-441 (Quinte).....	199	336	910	-	1,445
Rambo.....	467	389	826	15	1,697
Other Summer.....	799	224	1,094	71	2,188
TOTAL SUMMER.....	7,218	4,019	10,191	382	21,810
FALL:					
Grimes Golden.....	87	67	240	12	406
Jonathan.....	6,457	2,771	11,774	620	21,622
Paulared.....	3,890	426	775	-	5,091
Smokehouse.....	180	465	279	2	926
Tydemans Red.....	926	7,928	1,669	-	10,523
Other Fall.....	1,973	905	2,388	32	5,298
TOTAL FALL.....	13,513	12,562	17,125	666	43,866
WINTER:					
Cortland.....	5,411	3,597	3,919	1,715	14,642
Delicious (Red).....	106,842	87,138	105,117	5,372	304,469
Empire.....	2,939	216	620	-	3,775
Golden Delicious.....	25,293	23,400	53,086	2,275	104,054
Granny Smith.....	57	1,382	-	-	1,439
Idared.....	7,580	1,032	2,035	-	10,647
Macoun.....	1,369	660	403	45	2,477
Mutsa.....	1,020	258	589	-	1,867
N.W. Greening.....	2,945	-	203	-	3,148
Northern Spy.....	2,350	1,459	1,048	95	4,952
Stayman.....	18,133	9,495	14,616	955	43,199
Winesap.....	1,550	1,227	3,645	1,379	7,801
McIntosh.....	15,293	11,033	13,053	170	40,179
Rome, Red.....	13,891	6,503	24,584	1,247	46,225
Rome, Regular.....	6,748	1,843	1,370	165	10,126
Spartan.....	1,746	1,001	897	-	3,644
York, Red.....	8,210	2,090	21,011	5,284	36,595
York, Regular.....	14,867	4,096	19,842	721	39,526
Other Winter.....	825	987	969	17	2,798
TOTAL WINTER.....	237,699	157,417	267,007	19,440	681,563
TOTAL SIZE CONTROL.....	258,430	173,998	294,323	20,488	747,239



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PEACHES

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Number Of Orchards And Trees: The number of commercial peach growers (100+ trees) increased from 472 in 1972 to 498 in 1978, or 6 percent. Commercial peach tree numbers have declined 60 percent from the 1953 survey total and 3 percent since 1972. The number of trees in 1978 at 852,052 compares with 882,550 in 1972, down 4 percent. Of the 498 commercial growers, 76, or 15 percent, accounted for 67 percent of the trees.

Acreage In Orchards: Commercial peach acreage declined 11 percent from 10,955 acres in 1972 to 9,727.5 acres in 1978. Trees per acre increased from 81 in 1972 to 88 in 1978.

Location Of Trees: Fruit Region I accounts for 541,510 trees or 64 percent of the total. The ten leading counties (Adams, Franklin, York, Lehigh, Berks, Lancaster, Juniata, Erie, Northampton and Snyder) contains 86 percent of the total 856,842 trees.

Age Of Trees: Of the 856,842 total peach trees, 20.6 percent are 1-3 years old, 18.5 percent 4-6 years old, 54.9 percent 7-21 years old and 6 percent 22 years or older.

Varieties: Redhaven is the leading variety, comprising 13 percent of the total 856,842 trees. Other leading varieties as a percent of total trees are: Sunhigh — 11, Loring — 11, Elberta — 7, Redskin — 6, and Blake — 5. Of the total trees 1-3 years old, 14 percent were Redhavens.



Photo Credit: Mrs. Gail McPherson

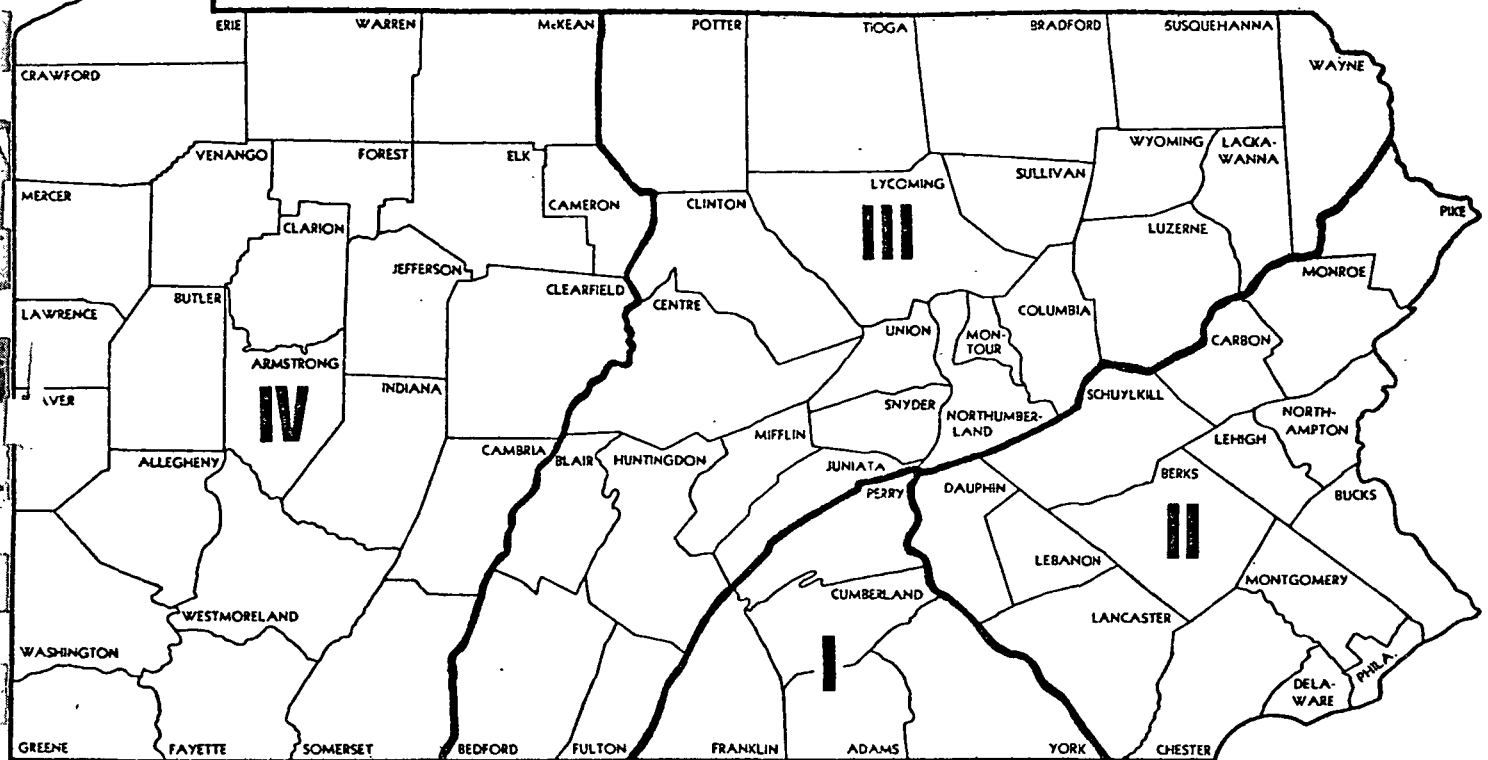
PENNSYLVANIA: PEACHES (COMMERCIAL): COMPARISON OF GROWERS AND TREE NUMBERS BY REGION - 1967, 1972 and 1978

Region	1967 Survey		1972 Survey		1978 Survey		Percent Change 72/78	
	Number Of Orchards	Number Of Trees	Number Of Orchards	Number Of Trees	Number Of Orchards	Number Of Trees	Number Of Orchards	Number Of Trees
I.....	281	613,891	225	562,919	198	541,510	-12	-4
II.....	155	288,324	108	204,764	133	199,573	+23	-3
III.....	98	103,412	77	77,807	91	74,716	+18	-4
IV & V.....	121	63,971	62	37,060	76	36,253	+23	-2
PENNSYLVANIA.....	665	1,069,598	472	882,550	498	852,052	+ 6	-3

PENNSYLVANIA: PEACHES (COMMERCIAL): NUMBER AND SIZE OF ORCHARDS BY REGION, 1967, 1972 and 1978

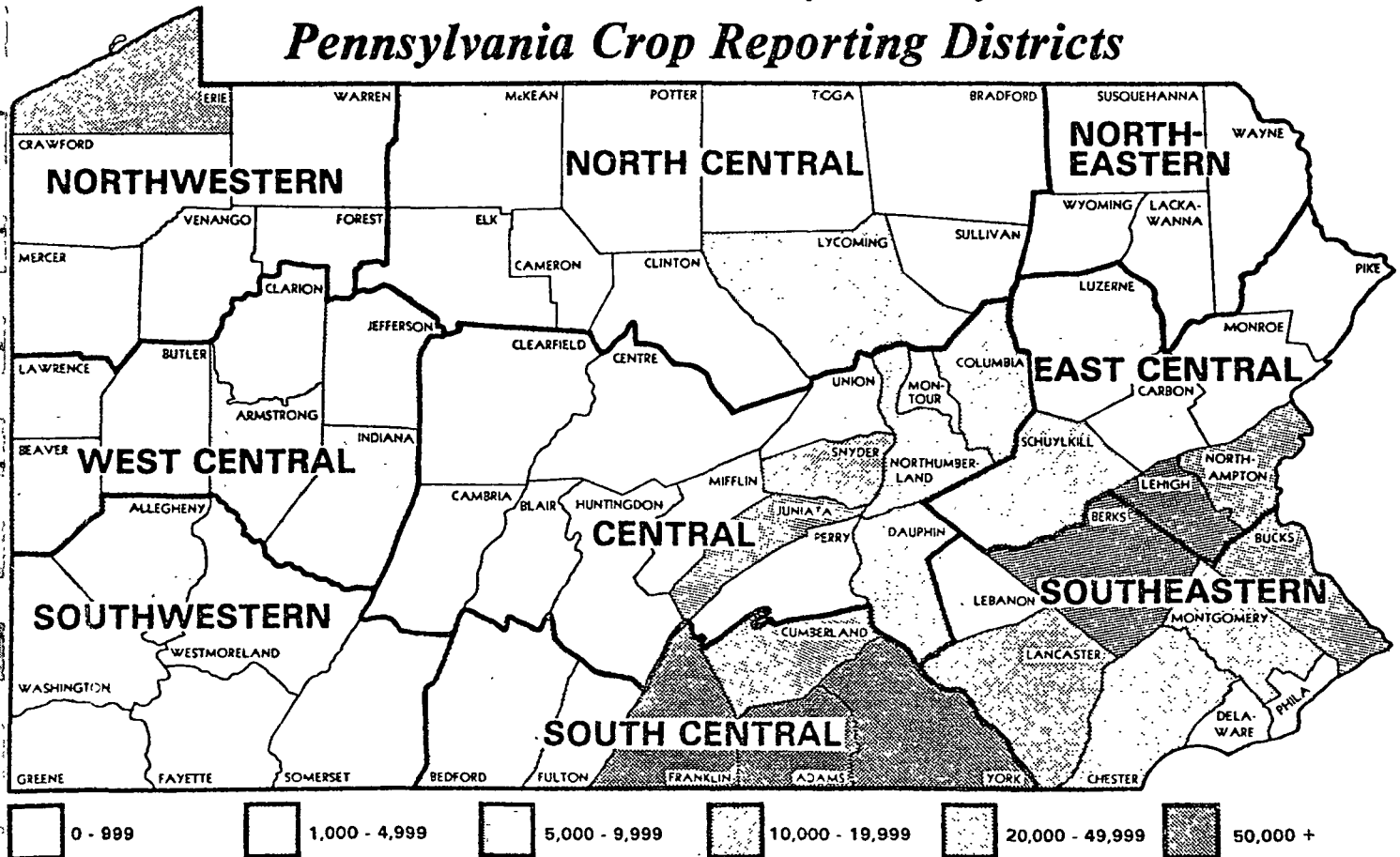
Region	Number Of Orchards			Number Of Peach Orchards By Size Groups											
				100-499 Trees			500-2,499 Trees			2,500-4,999 Trees			5,000 + Trees		
	1967	1972	1978	1967	1972	1978	1967	1972	1978	1967	1972	1978	1967	1972	1978
I.....	231	225	193	90	67	60	125	103	87	40	29	31	26	26	20
II.....	165	108	133	59	37	67	75	49	49	17	15	14	14	7	3
III.....	93	77	91	47	39	52	41	31	31	7	5	6	3	2	2
IV & V.....	121	62	76	84	39	51	35	21	25	1	2	-	1	-	-
PENNSYLVANIA..	665	472	493	230	182	230	276	204	192	65	51	51	44	35	25

Fruit Production Regions in Pennsylvania



Number of Peach Trees by County - 1978

Pennsylvania Crop Reporting Districts



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PENNSYLVANIA: PEACHES (TOTAL): GROWERS, ACRES, TREES AND PRODUCTION BY COUNTY AND REGION, 1978 1/

County And Region	Growers		Acres		Total Trees		Trees Per Acre	Production 2/		Bushels Per Tree 3/
	Number	%	Number	%	Number	%		Bushels	%	
REGION I:										
Adams.....	106	17.2	2,968.5	30.3	255,654	29.8	86	422,698	26.0	2.1
Cumberland.....	9	1.5	156.0	1.6	14,551	1.7	93	26,664	1.7	1.9
Franklin.....	43	7.0	1,874.5	19.2	179,435	20.9	96	448,546	27.6	2.9
Perry.....	7	1.1	25.5	.3	2,294	.3	90	3,395	.2	2.0
York.....	48	7.8	1,110.4	11.3	90,423	10.6	81	221,041	13.6	3.0
TOTAL.....	213	34.6	6,134.9	62.7	542,357	63.3	88	1,122,344	69.1	2.5
REGION II:										
Berks.....	31	5.0	581.4	5.9	50,787	5.9	87	78,009	4.8	2.4
Bucks.....	14	2.3	114.5	1.2	10,045	1.2	88	20,953	1.3	2.2
Carbon & Monroe.....	5	.7	9.3	-	720	.1	77	1,015	.1	1.5
Chester.....	12	1.9	125.3	1.3	9,758	1.1	78	21,155	1.3	2.7
Dauphin.....	6	1.0	106.0	1.1	8,281	1.0	78	19,020	1.2	2.3
Delaware.....	6	1.0	34.7	.3	3,504	.4	101	5,359	.3	1.7
Lancaster.....	27	4.4	387.5	4.0	29,541	3.4	76	65,872	4.1	2.8
Lebanon.....	3	.5	58.0	.6	4,685	.6	81	11,075	.7	3.6
Lehigh.....	16	2.6	524.4	5.4	55,900	6.5	107	113,602	7.0	2.7
Montgomery.....	16	2.6	84.6	.9	6,393	.7	76	12,081	.7	2.5
Northampton.....	5	.8	215.0	2.2	16,120	1.9	75	24,720	1.5	2.3
Pike.....	-	-	-	-	-	-	-	-	-	-
Schuylkill.....	33	5.4	77.0	.8	5,670	.7	74	12,800	.8	2.5
TOTAL.....	174	28.2	2,317.7	23.7	201,404	23.5	87	385,661	23.8	2.6
REGION III:										
Bedford & Fulton.....	8	1.3	52.0	.6	5,169	.6	99	7,223	.4	1.7
Blair.....	4	.7	34.0	.3	3,413	.4	100	400	-	.1
Centre, Huntingdon & Mifflin.....	5	.8	61.0	.6	3,008	.3	49	4,765	.3	2.5
Clinton, Bradford, Susquehanna & Wyoming...	5	.8	10.7	.1	846	.1	79	125	-	.2
Columbia.....	12	1.9	84.7	.9	7,561	.9	89	17,536	1.1	2.8
Juniata.....	12	1.9	272.6	2.8	21,755	2.5	80	19,710	1.2	1.2
Lackawanna.....	4	.7	3.2	-	271	-	85	222	-	.9
Luzerne.....	9	1.5	39.0	.4	2,538	.3	65	961	.1	.5
Lycoming.....	13	2.1	59.1	.6	5,919	.7	100	4,055	.3	1.4
Montour & Northumberland.....	21	3.4	97.2	.9	7,867	1.0	81	10,329	.7	2.1
Potter.....	-	-	-	-	-	-	-	-	-	-
Snyder.....	15	2.4	232.2	2.4	15,192	1.8	65	25,112	1.5	1.9
Tioga.....	-	-	-	-	-	-	-	-	-	-
Union.....	4	.7	24.5	.3	1,863	.2	76	2,413	.1	1.4
Wayne.....	-	-	-	-	-	-	-	-	-	-
TOTAL.....	112	18.2	970.2	9.9	75,402	8.8	78	92,851	5.7	1.6
REGION IV:										
Allegheny.....	12	1.9	30.7	.3	2,321	.3	76	2,566	.2	1.4
Armstrong.....	4	.7	26.1	.3	2,285	.3	88	2,105	.1	1.2
Beaver.....	9	1.5	22.4	.2	1,554	.2	69	1,162	.1	1.0
Butler.....	3	.5	2.8	-	250	-	89	35	-	.2
Cambria.....	-	-	-	-	-	-	-	-	-	-
Clearfield.....	-	-	-	-	-	-	-	-	-	-
Crawford, Elk & Venango.....	5	.8	3.6	-	382	-	106	552	-	2.1
Greene.....	-	-	-	-	-	-	-	-	-	-
Indiana.....	8	1.3	15.9	.2	1,775	.2	112	35	-	-
Lawrence.....	5	.8	19.1	.2	1,759	.2	92	2,071	.1	1.6
McKean.....	-	-	-	-	-	-	-	-	-	-
Mercer.....	8	1.3	46.4	.5	3,301	.4	71	4,479	.3	1.5
Somerset.....	-	-	-	-	-	-	-	-	-	-
Washington.....	12	1.9	27.7	.3	2,307	.3	83	1,655	.1	.8
Westmoreland, Clarion, Fayette & Jefferson.	4	.7	12.5	.1	1,437	.1	115	280	-	.5
TOTAL.....	70	11.4	207.2	2.1	17,371	2.0	84	14,940	.9	1.1
REGION V:										
Erie.....	47	7.6	151.7	1.6	20,308	2.4	134	8,050	.5	.6
TOTAL.....	47	7.6	151.7	1.6	20,308	2.4	134	8,050	.5	.6
PENNSYLVANIA.....	616	100.0	9,781.7	100.0	856,842	100.0	88	1,623,846	100.0	2.4

1/ Some counties are combined to avoid disclosure of individual operations.

2/ Production in 1977 from acreage maintained for production in 1978.

3/ Yield calculations are derived excluding the 1-3 year age category trees.

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PENNSYLVANIA: PEACHES (TOTAL): GROWERS, ACRES, TREES AND PRODUCTION BY SIZE OF OPERATION AND REGION, 1978

Size Of Operation (Trees)	Growers		Trees		Acres		Production 1/	
	Number	Percent	Number	Percent	Number	Percent	Bushels	Percent
Region I:								
1-99.....	15	7	847	-	10.5	-	2,209	-
100-199.....	19	9	2,829	-	45.2	1	4,976	1
200-499.....	41	19	14,677	3	191.1	3	25,190	2
500-999.....	40	19	32,968	6	411.6	7	72,069	6
1,000-2,499.....	47	22	76,227	14	942.5	15	184,362	17
2,500-4,999.....	31	15	112,143	21	1,277.0	21	225,688	20
5,000+.....	20	9	302,666	56	3,257.0	53	607,850	54
Total.....	213	100	542,357	100	6,134.9	100	1,122,344	100
Region II:								
1-99.....	41	24	1,831	1	27.5	1	4,060	1
100-199.....	30	17	3,597	2	57.3	3	7,139	2
200-499.....	37	21	12,082	6	159.3	7	21,471	6
500-999.....	24	14	17,014	8	233.6	10	30,717	8
1,000-2,499.....	25	14	40,814	20	508.0	22	72,858	19
2,500-4,999.....	14	8	52,088	26	636.0	27	125,305	32
5,000+.....	3	2	73,978	37	696.0	30	124,111	32
Total.....	174	100	201,404	100	2,317.7	100	385,661	100
Region III:								
1-99.....	21	19	686	1	6.3	1	784	1
100-199.....	25	22	3,416	4	54.3	6	6,666	7
200-499.....	27	24	8,315	11	108.5	11	10,639	12
500-999.....	16	14	10,611	14	148.7	15	8,597	9
1,000-2,499.....	15	14	22,036	29	269.4	28	24,150	26
2,500-4,999.....	8	7	30,338	41	383.0	39	42,015	45
5,000+.....	2/	-	-	-	-	-	-	-
Total.....	112	100	75,402	100	970.2	100	92,851	100
Region IV:								
1-99.....	27	39	1,084	6	7.4	4	980	6
100-199.....	10	14	1,215	7	17.6	8	780	5
200-499.....	24	34	7,691	44	97.2	47	7,150	48
500-999.....	9	13	7,381	43	85.0	41	6,030	41
1,000-2,499.....	2/	-	-	-	-	-	-	-
2,500-4,999.....	-	-	-	-	-	-	-	-
5,000+.....	-	-	-	-	-	-	-	-
Total.....	70	100	17,371	100	207.2	100	14,940	100
Region V:								
1-99.....	14	30	342	2	2.5	2	69	1
100-199.....	5	11	715	3	7.7	5	720	9
200-499.....	12	25	3,551	17	31.9	21	584	7
500-999.....	11	23	7,822	39	57.5	38	5,345	66
1,000-2,499.....	5	11	7,878	39	52.1	34	1,332	17
2,500-4,999.....	-	-	-	-	-	-	-	-
5,000+.....	-	-	-	-	-	-	-	-
Total.....	47	100	20,308	100	151.7	100	8,050	100
All Regions:								
1-99.....	118	19	4,790	1	54.2	1	8,102	1
100-199.....	89	15	11,772	1	182.1	2	20,281	1
200-499.....	141	23	46,316	5	588.0	6	65,034	4
500+.....	268	43	793,964	93	8,957.4	91	1,530,429	94
PENNSYLVANIA.....	616	100	856,842	100	9,781.7	100	1,623,846	100

1/ Production in 1977 from acreage maintained for production in 1978.

2/ Combined with the 2,500-4,999 size group to avoid disclosure of individual operations.

PENNSYLVANIA: PEACHES - COMPARISON OF COMMERCIAL & NON-COMMERCIAL GROWER AND TREE NUMBERS 1967, 1972, 1978

Trees	Number Of Growers			Number Of Trees		
	1967	1972	1978	1967	1972	1978
1-99 1/.....	115	73	118	4,510	4,451	4,790
100+.....	665	472	498	1,069,598	882,550	852,052
Total 1/.....	780	545	616	1,074,108	887,001	856,842

1/ Includes trees in orchards classified as commercial (100+ trees) for any fruit.

PENNSYLVANIA: PEACHES (COMMERCIAL): PRODUCTION, DISPOSITION AND VALUE, 1930-1978

Year	Production 1/	Utilization				Price Per Pound 3/	Value Of Production
		Home Use	Sales				
			Fresh	All Processed	All Sales		
		Million Pounds				Cents	Thous. Dols.
1930.....	50.1	15.0	-	-	-	3.54	1,775
1940.....	94.8	11.5	76.7	-	-	1.98	1,830
1950.....	105.3	10.0	89.6	4.8	95.3	4.38	4,607
1960.....	139.2	2.9	112.3	24.0	136.3	4.48	6,236
1970.....	84.0	2/	74.0	10.0	84.0	7.70	6,468
1971.....	105.0	2/	88.7	16.3	105.0	6.52	6,846
1972.....	80.0	2/	71.8	8.2	80.0	13.00	10,400
1973.....	81.0	2/	70.3	10.7	81.0	11.30	9,153
1974.....	100.0	2/	86.4	13.6	100.0	11.80	11,800
1975.....	90.0	2/	83.4	6.6	90.0	12.20	10,980
1976.....	90.0	2/	81.8	8.2	90.0	13.00	11,700
1977.....	95.0	2/	88.4	6.6	95.0	12.90	12,255
1978.....	85.0	2/	70.4	14.6	85.0	15.80	13,430

1/ Includes some quantities not harvested and excess cullage. 2/ Included in fresh utilization. 3/ Fresh and processing prices combined.

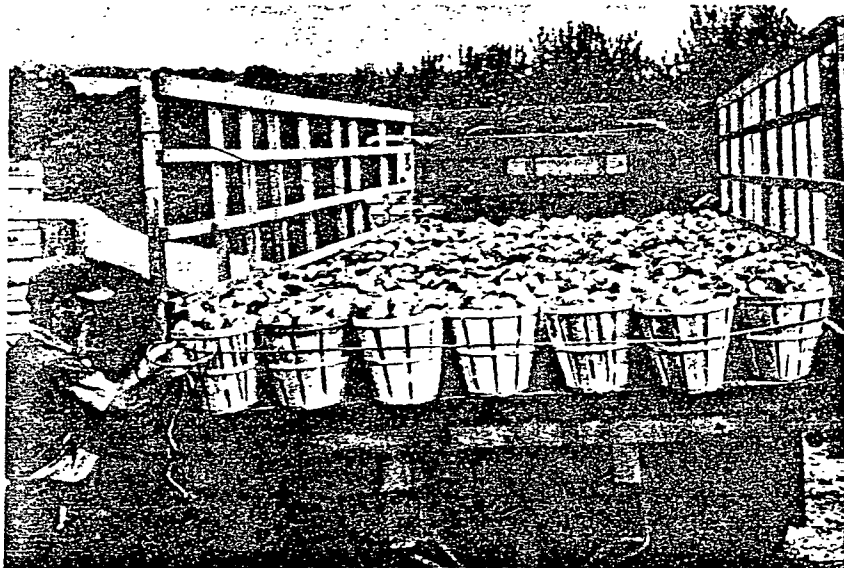


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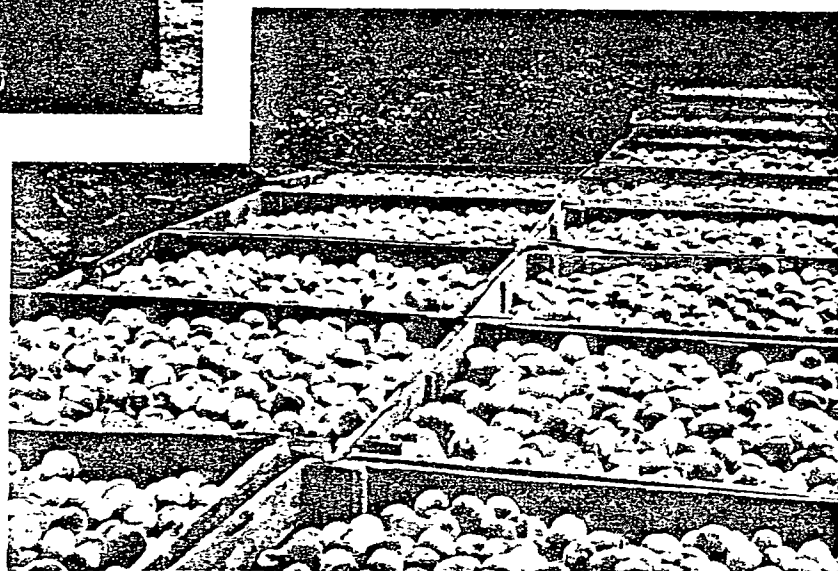


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PENNSYLVANIA: PEACHES (TOTAL): COMPARISON OF ORCHARDS AND TREES OF ALL AGES BY COUNTIES, 1967, 1972 AND 1978

County & District	Tree Survey, 1967		Tree Survey, 1972 1/		Tree Survey, 1978	
	Number-Orchards	Total Trees	Number-Orchards	Total Trees	Number-Orchards	Total Trees
Crawford.....	-	-	-	-	2	2/
Erie.....	103	38,144	55	23,572	47	20,308
Forest.....	-	-	-	-	-	-
Mercer.....	3	1,877	-	-	8	3,301
Venango.....	3	1,707	-	-	2	2/
Warren.....	-	-	-	-	-	-
NORTHWESTERN, TOTAL.....	109	41,728	-	-	59	23,861
Bradford.....	3	2/	-	-	1	2/
Cameron.....	-	-	-	-	-	-
Clinton.....	-	-	-	-	1	2/
Elk.....	-	-	-	-	1	2/
Lycoming.....	7	3,230	-	-	13	5,919
McKean.....	-	-	-	-	-	-
Potter.....	-	-	-	-	-	-
Sullivan.....	-	-	-	-	-	-
Tioga.....	1	2/	-	-	-	-
NORTH CENTRAL, TOTAL.....	11	4,324	-	-	16	6,632
Lackawanna.....	5	282	6	650	4	271
Susquehanna.....	1	2/	-	-	1	2/
Wayne.....	1	2/	-	-	-	-
Wyoming.....	3	1,510	-	-	2	2/
NORTHEASTERN, TOTAL.....	10	2,064	-	-	7	534
Armstrong.....	3	1,762	3	930	4	2,285
Beaver.....	6	832	3	705	9	1,554
Butler.....	3	188	-	-	3	250
Clarion.....	1	2/	-	-	1	2/
Indiana.....	3	395	-	-	8	1,775
Jefferson.....	1	2/	-	-	1	2/
Lawrence.....	10	2,523	-	-	5	1,759
WEST CENTRAL, TOTAL.....	27	6,725	-	-	31	8,635
Blair.....	5	1,616	5	1,968	4	3,413
Cambria.....	2	2/	-	-	-	-
Centre.....	1	2/	-	-	1	2/
Clearfield.....	4	1,157	-	-	-	-
Columbia.....	14	14,478	12	10,804	12	7,561
Dauphin.....	5	10,649	4	9,119	6	8,281
Huntingdon.....	2	2,840	-	-	2	2/
Juniata.....	10	32,048	10	26,812	12	21,755
Nifflin.....	4	2,497	-	-	2	2/
Montour.....	2	2/	-	-	1	3/
Northumberland.....	19	7,482	16	5,565	20	7,867
Perry.....	3	940	-	-	7	2,294
Snyder.....	18	16,103	11	14,028	15	15,192
Union.....	5	6,160	-	-	4	1,863
CENTRAL, TOTAL.....	94	98,374	-	-	86	71,234
Carbon.....	5	1,063	-	-	4	720
Lehigh.....	23	70,372	15	57,935	16	55,900
Luzerne.....	7	3,071	5	2,125	9	2,538
Monroe.....	3	170	-	-	1	3/
Northampton.....	7	12,230	4	7,078	5	16,120
Pike.....	-	-	-	-	-	-
Schuylkill.....	30	15,342	28	8,521	33	5,670
EAST CENTRAL, TOTAL.....	75	102,248	-	-	68	80,948
Allegheny.....	18	6,408	12	5,146	12	2,321
Fayette.....	1	2/	-	-	1	2/
Greene.....	1	2/	-	-	-	-
Somerset.....	-	-	-	-	-	-
Washington.....	14	6,187	6	4,897	12	2,307
Westmoreland.....	3	1,794	-	-	1	2/
SOUTHWESTERN, TOTAL.....	37	15,989	-	-	26	5,053
Adams.....	147	265,237	126	270,498	106	255,654
Bedford.....	10	9,478	8	2,071	7	5,169
Cumberland.....	10	15,193	-	-	9	14,551
Franklin.....	75	217,280	47	177,913	43	179,435
Fulton.....	1	3/	-	-	1	3/
York.....	62	115,489	46	94,979	48	90,423
SOUTH CENTRAL, TOTAL.....	305	623,277	-	-	214	545,232
Berks.....	41	100,341	32	65,551	31	50,787
Bucks.....	11	11,382	6	7,425	14	10,045
Chester.....	14	8,731	9	6,545	12	9,758
Delaware.....	4	2/	3	2,484	6	3,504
Lancaster.....	22	32,805	18	26,717	27	29,541
Lebanon.....	6	17,567	4	10,270	3	4,685
Montgomery.....	13	5,669	12	5,103	16	6,393
Philadelphia.....	1	2/	-	-	-	-
SOUTHEASTERN, TOTAL.....	112	179,379	-	-	109	114,713
TOTAL, OTHER.....	-	-	39	37,590	-	-
PENNSYLVANIA.....	780	1,074,108	545	882,001	616	856,842

1/ Comparable data only available on counties listed for 1972 survey. 2/ Not published separately to avoid disclosure of individual operations. 3/ Monroe county combined with Carbon county; Fulton county combined with Bedford county; Montour county combined with Northumberland county to avoid disclosure of individual operations.

PENNSYLVANIA: PEACHES (TOTAL): NUMBER OF TREES BY COUNTIES AND AGE GROUPS, 1978 1/

County And District	Number Of Trees Maintained For Production According To Year Set Out					Percent Of Total
	1975-1977 (1-3 Yrs.)	1972-1974 (4-6 Yrs.)	1957-1971 (7-21 Yrs.)	1956 & Earlier (22 Yrs +)	Total All Ages	
Erie.....	7,290	5,643	5,800	1,575	20,308	2.4
Forest.....	-	-	-	-	-	-
Mercer.....	275	583	2,333	110	3,301	.4
Venango & Crawford.....	165	60	23	4	252	-
Warren.....	-	-	-	-	-	-
NORTHWESTERN, TOTAL.....	7,730	6,286	8,156	1,689	23,861	2.8
Bradford, Clinton & Elk.....	10	-	703	-	713	.1
Cameron.....	-	-	-	-	-	-
Lycoming.....	2,950	728	2,225	16	5,919	.7
McKean.....	-	-	-	-	-	-
Potter.....	-	-	-	-	-	-
Sullivan.....	-	-	-	-	-	-
Tioga.....	-	-	-	-	-	-
NORTH CENTRAL, TOTAL.....	2,960	728	2,928	16	6,632	.8
Lackawanna.....	12	124	135	-	271	.1
Wayne.....	-	-	-	-	-	-
Wyoming & Susquehanna.....	215	6	42	-	263	-
NORTHEASTERN, TOTAL.....	227	130	177	0	534	.1
Armstrong.....	525	560	700	500	2,285	.3
Beaver.....	366	2	1,156	30	1,554	.2
Butler.....	80	120	50	-	250	-
Indiana.....	820	836	99	20	1,775	.2
Jefferson & Clarion.....	-	520	492	-	1,012	.1
Lawrence.....	482	515	662	100	1,759	.2
WEST CENTRAL, TOTAL.....	2,273	2,553	3,159	650	8,635	1.0
Blair.....	166	3,085	120	42	3,413	.4
Cambria.....	-	-	-	-	-	-
Centre, Huntingdon & Mifflin.....	1,098	492	1,290	128	3,008	.3
Clearfield.....	-	-	-	-	-	-
Columbia.....	1,399	1,485	2,957	1,720	7,561	.9
Dauphin.....	1,177	1,225	5,788	91	8,281	.9
Juniata.....	5,420	1,385	14,950	-	21,755	2.5
Montour & Northumberland.....	2,949	1,628	3,210	80	7,867	1.0
Perry.....	636	149	1,509	-	2,294	.3
Snyder.....	1,947	5,695	5,712	1,838	15,192	1.8
Union.....	100	253	1,510	-	1,863	.2
CENTRAL, TOTAL.....	14,892	15,397	37,046	3,899	71,234	8.3
Carbon & Monroe.....	61	420	239	-	720	.1
Lehigh.....	14,326	11,051	27,670	2,853	55,900	6.5
Luzerne.....	536	1,094	851	57	2,538	.3
Northampton.....	5,385	2,840	7,895	-	16,120	1.9
Pike.....	-	-	-	-	-	-
Schuylkill.....	451	1,443	3,519	257	5,670	.6
EAST CENTRAL, TOTAL.....	20,759	16,848	40,174	3,167	80,948	9.4
Allegheny.....	437	176	1,702	6	2,321	.2
Fayette & Westmoreland.....	-	325	100	-	425	.1
Greene.....	-	-	-	-	-	-
Somerset.....	-	-	-	-	-	-
Washington.....	351	307	1,596	53	2,307	.3
SOUTHWESTERN, TOTAL.....	788	808	3,398	59	5,053	.6
Adams.....	53,755	42,604	141,369	17,926	255,654	29.8
Bedford & Fulton.....	877	869	3,266	157	5,169	.6
Cumberland.....	645	2,156	11,750	-	14,551	1.7
Franklin.....	23,973	34,469	107,772	13,221	179,435	20.9
York.....	17,120	19,391	48,705	5,207	90,423	10.6
SOUTH CENTRAL, TOTAL.....	96,370	99,489	312,862	36,511	545,232	63.6
Berks.....	18,675	6,355	23,804	1,953	50,787	5.9
Bucks.....	616	896	6,753	1,780	10,045	1.2
Chester.....	1,923	442	6,976	417	9,758	1.1
Delaware.....	261	2,879	364	-	3,504	.4
Lancaster.....	5,697	3,515	19,270	1,059	29,541	3.5
Lebanon.....	1,575	480	2,630	-	4,685	.6
Montgomery.....	1,515	1,937	2,409	532	6,393	.7
Philadelphia.....	-	-	-	-	-	-
SOUTHEASTERN, TOTAL.....	30,262	16,504	62,206	5,741	114,713	13.4
PENNSYLVANIA.....	176,261	158,743	470,106	51,732	856,842	100.0
PERCENT OF TOTAL TREES.....	20.6	18.5	54.9	6.0	100.0	-

1/ Some counties are combined to avoid disclosure of individual operations.

ORIGINAL PAGE 19
OF POOR QUALITY

PENNSYLVANIA: PEACHES-(TOTAL): TREES BY VARIETY AND AGE GROUPS, 1978

Variety	1975-1977 (1-3 Years)	1972-1974 (4-6 Years)	1957-1971 (7-21 Years)	1956 & Earlier (22 Years +)	Total All Ages	% Of Total
Early:						
Dixie Red.....	1,142	1,080	1,115	300	3,637	.4
Earliglo.....	535	1,985	1,964	-	4,484	.5
Early Red Haven.....	305	1,536	76	-	1,917	.3
Early Red Fre.....	539	592	1,149	140	2,420	.3
Jerseyland.....	1,280	433	1,961	816	4,490	.5
Redhaven.....	23,879	27,656	55,539	4,748	111,822	13.1
Redskin.....	11,563	10,671	29,197	834	52,265	6.1
Sunhaven.....	3,421	5,614	11,079	217	20,331	2.4
Other Early.....	5,353	4,187	2,010	126	11,676	1.4
Total Early.....	48,017	53,754	104,090	7,181	213,042	25.0
Mid-Season:						
Ambergem.....	60	175	6,700	-	6,935	.8
Baby Gold.....	6,915	4,170	16,296	100	27,481	3.2
Belle of Georgia.....	288	211	1,007	132	1,638	.2
Blake.....	2,407	3,692	38,355	1,436	45,890	5.4
Cresthaven.....	7,984	8,350	1,092	60	17,486	2.0
Garnet Beauty.....	3,662	791	249	35	4,737	.6
Glohaven.....	1,323	1,372	1,104	125	3,924	.4
Hale Harrison Brilliant....	129	357	2,629	440	3,555	.4
Halehaven.....	969	2,253	10,236	5,784	19,242	2.2
Harbelle.....	1,561	1,441	176	-	3,178	.4
Harken.....	3,004	810	200	-	4,014	.5
Harmony.....	4,408	3,019	577	-	8,004	.9
Golden Jubilee.....	451	548	2,437	656	4,092	.5
Loring.....	16,966	13,033	58,644	1,069	89,712	10.5
Madison.....	897	978	6,284	40	8,199	1.0
Ranger.....	85	330	2,090	95	2,600	.3
Red Elberta.....	82	310	928	494	1,814	.2
Red Crest.....	73	91	797	34	995	.1
Richhaven.....	213	1,358	6,203	385	8,159	1.0
Southhaven.....	65	303	813	50	1,231	.1
Suncrest.....	4,000	3,695	2,057	-	9,752	1.0
Sunhigh.....	16,653	20,247	52,316	5,837	95,053	11.1
Triogem.....	7,453	3,524	15,533	2,808	29,318	3.4
Washington.....	4,963	2,332	9,486	109	16,890	2.0
Other Mid-Season.....	9,570	4,758	16,984	1,818	33,130	3.8
Total Mid-Season.....	94,181	78,148	253,193	21,507	447,029	52.0
Late:						
Brackett.....	-	93	156	238	487	.1
Elberta.....	1,686	2,466	33,758	17,361	55,271	6.5
Gemmers Late.....	300	245	400	10	955	.1
J. H. Hale.....	1,778	1,584	10,558	1,664	15,584	1.8
Jefferson.....	700	1,576	17,773	317	20,366	2.4
Jerseyqueen.....	11,285	8,279	17,646	242	37,452	4.4
Late Sunhaven - Slaybaugh..	870	1,192	646	-	2,708	.3
Monroe.....	2,289	662	1,931	100	4,982	.6
Rio Oso Gem.....	10,608	8,097	25,391	1,785	45,881	5.3
Sweet Sue.....	1,451	60	80	-	1,591	.2
White Hale.....	236	392	1,647	154	2,429	.3
Other Late.....	2,860	2,195	2,837	1,173	9,065	1.0
Total Late.....	34,063	26,841	112,823	23,044	196,771	23.0
TOTAL ALL VARIETIES.....	176,261	158,743	470,106	51,732	856,842	100.0

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PEARS

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Number of Orchards And Trees: Commercial pear orchards (100+ Trees) at 193 in 1978 increased 7 percent from the 180 total in 1972. The corresponding tree numbers increased 23 percent from 96,373 in 1972 to 118,874 in 1978.

Acreage In Orchards: Commercial pear acreage increased 29 percent from 1,073 acres in 1972 to 1,380.7 in 1978. Trees per acre declined from 90 in 1972 to 86 in 1978. Pears were the only fruit to decline in trees per acre since the 1972 survey.

Location Of Trees: Fruit Region I accounts for 57 percent of the 118,874 commercial trees. Adams county alone contains 45 percent of the total 127,158 trees. The leading six counties (Adams, Schuylkill, York, Erie, Lehigh and Franklin) contain 73 percent of the total trees.

Age Of Trees: Of the 127,158 total pear trees, 9.1 percent are 1-3 years old, 14.4 percent 4-6 years old, 53.9 percent 7-21 years old and 22.6 percent 22 years or older.

Varieties: The Bartlett pear is by far the most popular variety in Pennsylvania comprising 65 percent of the total 127,158 trees. Other leading varieties as a percent of total trees are: Bosc — 17, D'Anjou — 7, Clapps Favorite and Sekel — 2 percent each.

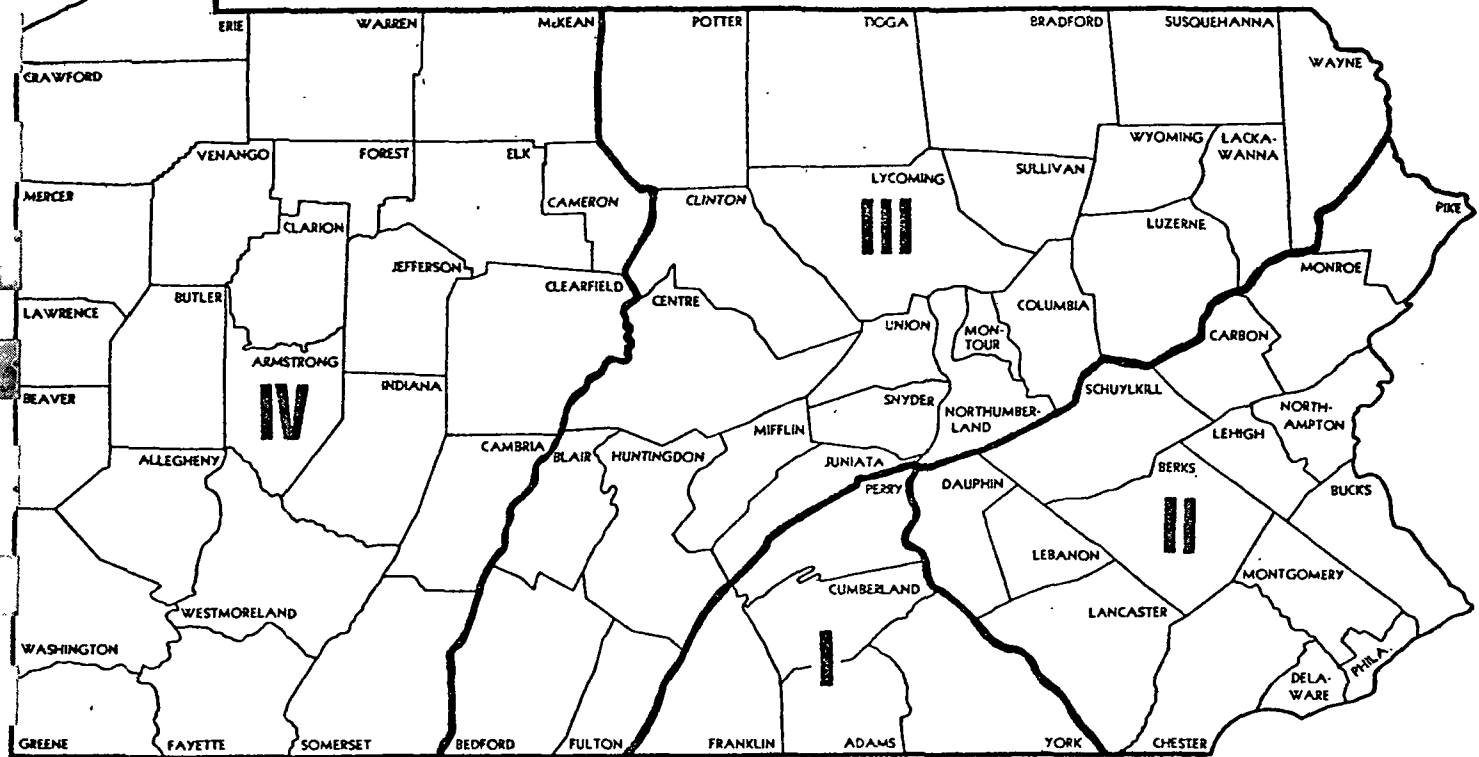
PENNSYLVANIA: PEARS (COMMERCIAL): COMPARISON OF GROWERS AND TREE NUMBERS BY REGION - 1972 & 1978

Region	1972 Survey		1978 Survey		Percent Change 72/78	
	Number Of Orchards	Number Of Trees	Number Of Orchards	Number Of Trees	Number Of Orchards	Number Of Trees
I.....	75	48,936	80	68,107	+ 7	+39
II.....	44	26,210	55	31,292	+25	+19
III.....	28	12,047	41	13,535	+46	+12
IV & V.....	33	9,180	17	5,940	-48	-35
PENNSYLVANIA.....	180	96,373	193	118,874	+ 7	+23

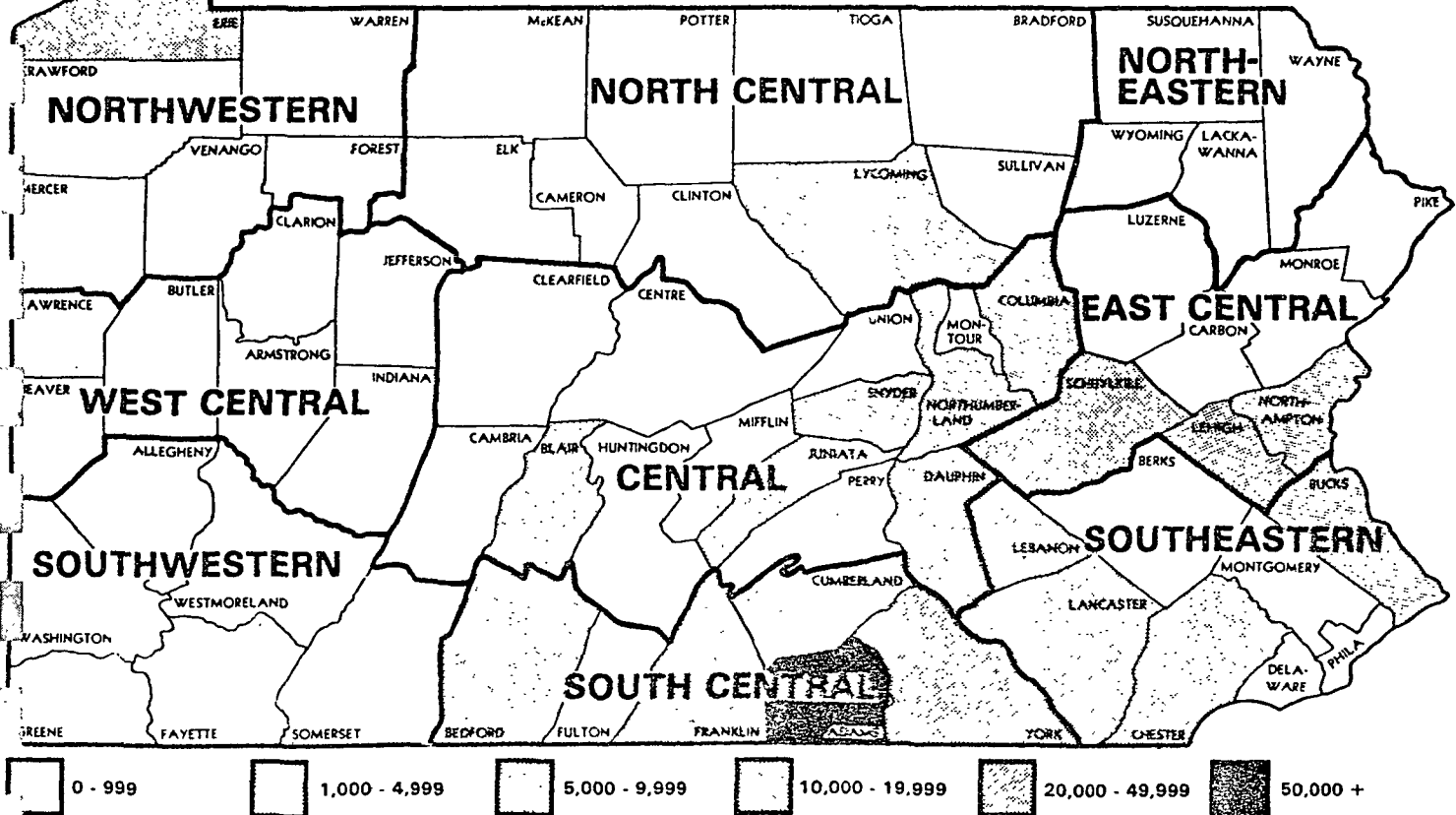


Photo Credit: Tom Piper

Fruit Production Regions in Pennsylvania



Number of Pear Trees by County - 1978 Pennsylvania Crop Reporting Districts



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PENNSYLVANIA: PEARS-(TOTAL): GROWERS, ACRES, TREES AND PRODUCTION BY COUNTY AND REGION, 1972 & 1978

County & Region	Growers		Acres		Trees				Production (Bushels) 1/
					Total		Trees Per Acre		
	1972	1978	1972	1978	1972	1978	1972	1978	
Region I:									
Adams.....	73	72	432	678.0	37,994	57,107	88	84	82,709
Franklin.....	17	22	38	49.0	3,202	4,853	85	99	6,769
York.....	38	36	87	96.0	7,836	6,981	90	72	12,068
Other.....	5	15	25	25.0	2,226	1,530	89	61	965
Total.....	133	145	582	848.0	51,258	70,471	88	83	102,511
Region II:									
Berks.....	22	21	47	36.7	2,615	3,140	56	86	4,708
Bucks.....	6	11	16	18.0	1,044	1,495	67	83	9,989
Chester.....	6	8	25	14.0	738	1,183	30	85	2,292
Dauphin.....	3	5	30	30.9	2,891	3,440	96	111	5,333
Lancaster.....	15	19	54	43.3	4,822	2,915	90	67	6,312
Lebanon.....	3	3	15	8.0	1,110	1,030	76	129	3,065
Lehigh.....	13	14	75	90.3	7,194	5,541	96	61	13,063
Montgomery.....	8	8	9	6.1	456	386	50	63	768
Northampton.....	6	6	17	13.0	1,371	1,771	81	136	5,552
Schuylkill.....	24	32	69	101.7	6,350	12,012	92	118	12,893
Other.....	8	11	8	10.1	448	702	52	70	664
Total.....	114	138	365	372.1	29,039	33,621	80	90	64,639
Region III:									
Bedford.....	4	9	2	16.2	153	1,293	83	80	554
Blair.....	4	4	14	19.0	2,729	2,203	195	116	9,700
Bradford.....	3	4	5	7.9	535	632	107	80	585
Columbia.....	10	10	24	22.0	1,980	1,919	84	87	4,005
Juniata.....	5	7	17	21.1	1,126	1,912	66	91	1,260
Lackawanna.....	6	7	2	2.0	183	197	110	99	232
Luzerne.....	10	16	17	14.0	466	925	27	66	919
Mifflin.....	3	3	3	6.0	169	297	50	50	700
Northumberland.....	13	14	13	18.0	652	1,327	47	74	1,777
Snyder.....	9	12	15	15.8	1,215	1,202	79	76	1,033
Other.....	9	26	23	49.2	4,078	3,547	177	72	7,164
Total.....	76	112	135	191.2	13,286	15,454	98	81	27,929
Region IV:									
Allegheny.....	10	10	8	6.0	455	363	60	61	919
Beaver.....	3	5	1	3.0	73	202	103	67	105
Indiana.....	3	10	3	5.0	131	417	44	83	74
Washington.....	3	3	5	1.0	363	24	74	24	-
Other.....	12	27	22	12.5	1,791	875	81	70	431
Total.....	31	55	39	27.5	2,818	1,881	72	68	1,529
Region V:									
Erie.....	47	27	91	61.0	7,887	5,731	87	94	8,305
Total.....	47	27	91	61.0	7,887	5,731	87	94	8,305
PENNSYLVANIA.....	401	477	1,212	1,499.8	104,282	127,153	86	85	204,913

1/ Production in 1977 from acreage maintained for production in 1978. Comparable data for 1972 not available.

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PENNSYLVANIA: PEARS (TOTAL): GROWERS, ACRES, TREES AND PRODUCTION BY SIZE OF OPERATION AND REGION, 1978

Size Of Operation (Trees)	Growers		Trees		Acres		Production 1/	
	Number	Percent	Number	Percent	Number	Percent	Bushels	Percent
Region I:								
1-99.....	65	45	2,364	3	29.3	4	6,149	6
100-199.....	27	19	3,455	5	53.6	6	7,129	7
200-499.....	25	17	7,568	11	105.5	12	11,052	11
500-999.....	12	8	8,277	12	84.5	10	9,592	9
1,000-2,499.....	11	8	16,917	24	165.1	20	26,195	26
2,500-4,999.....	5	3	31,890	45	410.0	48	42,394	41
5,000+.....	2/	-	-	-	-	-	-	-
Total.....	145	100	70,471	100	848.0	100	102,511	100
Region II:								
1-99.....	83	60	2,329	7	36.8	10	5,211	8
100-199.....	25	18	3,679	11	49.3	13	16,915	26
200-499.....	17	13	4,423	13	62.8	17	9,399	15
500-999.....	7	5	4,285	13	54.2	15	8,388	13
1,000-2,499.....	6	4	18,905	56	169.0	45	24,726	38
2,500-4,999.....	3/	-	-	-	-	-	-	-
5,000+.....	3/	-	-	-	-	-	-	-
Total.....	138	100	33,621	100	372.1	100	64,639	100
Region III:								
1-99.....	71	64	1,919	12	27.2	14	2,546	9
100-199.....	18	16	2,479	16	34.5	18	2,761	10
200-499.....	16	14	5,108	33	64.5	34	5,217	19
500-999.....	7	6	5,948	39	65.0	34	17,405	62
1,000-2,499.....	4/	-	-	-	-	-	-	-
2,500-4,999.....	-	-	-	-	-	-	-	-
5,000+.....	-	-	-	-	-	-	-	-
Total.....	112	100	15,454	100	191.2	100	27,929	100
Region IV & V:								
1-99.....	65	79	1,672	22	25.8	29	1,761	18
100-199.....	6	7	840	11	11.3	13	469	5
200-499.....	7	9	2,072	27	21.9	25	1,945	20
500-999.....	4	5	3,028	40	29.5	33	5,659	57
1,000-2,499.....	4/	-	-	-	-	-	-	-
2,500-4,999.....	-	-	-	-	-	-	-	-
5,000+.....	-	-	-	-	-	-	-	-
Total.....	82	100	7,612	100	88.5	100	9,834	100
All Regions:								
1-99.....	284	60	8,284	6	119.1	8	15,667	8
100-199.....	76	16	10,453	9	148.7	10	27,274	13
200-499.....	65	14	19,171	16	254.7	17	27,613	13
500+.....	52	10	89,250	69	977.3	65	134,359	66
PENNSYLVANIA.....	477	100	127,158	100	1,499.8	100	204,913	100

- 1/ Production from 1977 from acreage maintained for production in 1978.
 2/ Combined with the 2,500-4,999 size group to avoid disclosure of individual operations.
 3/ Combined with the 1,000-2,499 size group to avoid disclosure of individual operations.
 4/ Combined with the 500-999 size group to avoid disclosure of individual operations.

PENNSYLVANIA: PEARS - COMPARISON OF COMMERCIAL & NON-COMMERCIAL GROWER AND TREE NUMBERS 1967, 1972, 1978

Trees	Number Of Growers			Number Of Trees		
	1967	1972	1978	1967	1972	1978
1-99 1/.....	343	221	284	10,513	7,915	8,284
100+.....	237	180	193	94,421	96,373	118,874
Total 1/.....	580	401	477	104,934	104,288	127,158

1/ Includes trees in orchards classified as commercial (100+ trees) for any fruit.

PENNSYLVANIA: PEARS (COMMERCIAL): PRODUCTION, DISPOSITION AND VALUE, 1930-1978

Year	Production <u>1/</u>	Utilization				Price Per Ton <u>4/</u>	Value Of Production
		Home Use	Sales				
			Fresh	All Processed	All Sales		
<hr/>							
<hr/>							
<u>Tons</u>					<u>Dollars</u>	<u>Thous. Dols.</u>	
1930.....	14,255	5,950	8,275	-	8,275	44	626
1940.....	12,425	3,975	7,825	-	7,825	34	401
1950.....	5,250	2,500	2,750	-	2,750	78	410
1960.....	2,750	650	2,100	-	2,100	102	280
1970.....	4,100	2/	2/	2/	4,100	153	627
1971.....	3,700	2/	2/	2/	3,700	128	474
1972.....	3,700	3/	3,300	-	3,300	196	647
1973.....	1,900	3/	1,900	-	1,900	230	437
1974.....	4,100	2/	2/	2/	4,100	235	964
1975.....	4,500	2/	2/	2/	4,500	216	972
1976.....	3,700	2/	2/	2/	3,700	232	858
1977.....	4,700	2/	2/	2/	4,700	252	1,184
1978.....	3,300	2/	2/	2/	3,300	286	944

^{1/} Includes some quantities not harvested and excess cullage. ^{2/} Not published to avoid disclosure of individual operations.
^{3/} Included in fresh utilization. ^{4/} Fresh and processing prices combined.



Photo Credit: Tom Piper

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 BLACK AND WHITE PHOTOGRAPH

PENNSYLVANIA: PEARS (TOTAL): NUMBER OF TREES BY COUNTIES AND AGE GROUPS - 1978 1/

County & District	Number Of Trees Maintained For Production According To Year Set Out					Percent Of Total
	1975-1977 (1-3 Years)	1972-1974 (4-6 Years)	1957-1971 (7-21 Years)	1956 & Earlier (22 Years +)	Total All Ages	
Crawford.....	15	-	142	12	169	.1
Erie.....	350	348	1,749	3,284	5,731	4.5
Forest.....	-	-	-	-	-	-
Mercer & Venango.....	39	6	46	-	91	.1
Warren.....	-	-	-	-	-	-
NORTHWESTERN, TOTAL.....	404	354	1,937	3,296	5,991	4.7
Bradford.....	-	-	467	165	632	.5
Cameron.....	-	-	-	-	-	-
Clinton.....	-	-	-	-	-	-
Elk.....	-	-	-	-	-	-
Lycoming.....	35	5	1,244	801	2,085	1.6
McKean.....	-	-	-	-	-	-
Sullivan.....	-	-	-	-	-	-
Tioga & Potter.....	-	-	131	250	381	.3
NORTH CENTRAL, TOTAL.....	35	5	1,842	1,216	3,098	2.4
Lackawanna.....	10	21	111	55	197	.2
Wayne.....	-	-	-	-	-	-
Wyoming & Susquehanna.....	-	-	557	-	557	.4
NORTHEASTERN, TOTAL.....	10	21	668	55	754	.6
Beaver.....	8	57	104	33	202	.2
Butler, Armstrong, Clarion & Jefferson.....	20	25	35	16	96	.1
Indiana.....	124	117	152	24	417	.3
Lawrence.....	-	-	103	20	123	.1
WEST CENTRAL, TOTAL.....	152	199	394	93	838	.7
Blair.....	400	773	730	300	2,203	1.1
Cambria & Centre.....	-	100	50	15	165	.1
Columbia.....	185	239	1,041	454	1,919	1.5
Dauphin.....	971	454	1,884	131	3,440	2.7
Huntingdon & Clearfield.....	7	60	225	50	342	.3
Juniata.....	1,077	-	835	-	1,912	1.5
Mifflin.....	-	-	297	-	297	.2
Montour & Northumberland.....	137	574	502	179	1,392	1.1
Perry.....	12	20	272	-	304	.2
Snyder.....	82	183	754	183	1,202	1.0
Union.....	40	2	115	55	212	.2
CENTRAL, TOTAL.....	2,911	2,405	6,705	1,367	13,388	10.5
Carbon, Monroe & Pike.....	8	263	8	52	331	.3
Lehigh.....	6	211	1,211	4,113	5,541	4.4
Luzerne.....	97	103	214	511	925	.7
Northampton.....	45	298	1,427	1	1,771	1.4
Schuylkill.....	141	316	7,847	3,708	12,012	9.4
EAST CENTRAL, TOTAL.....	297	1,191	10,707	8,385	20,580	16.2
Allegheny.....	56	25	195	87	363	.3
Fayette, Somerset & Westmoreland.....	30	75	31	-	136	.1
Greene.....	-	-	-	-	-	-
Washington.....	-	-	-	24	24	-
SOUTHWESTERN, TOTAL.....	86	100	226	111	523	.4
Adams.....	3,546	8,932	34,075	10,554	57,107	44.9
Bedford.....	675	480	118	20	1,293	1.0
Cumberland.....	396	127	703	-	1,226	1.0
Franklin.....	1,308	720	1,911	914	4,853	3.8
Fulton.....	-	-	-	-	-	-
York.....	339	2,540	2,977	1,125	6,981	5.5
SOUTH CENTRAL, TOTAL.....	6,264	12,799	39,784	12,613	71,460	56.2
Berks.....	719	206	1,812	403	3,140	2.5
Bucks.....	215	208	1,066	6	1,495	1.2
Chester.....	332	23	807	26	1,188	.9
Delaware.....	2	-	72	297	371	.3
Lancaster.....	119	639	1,489	669	2,916	2.3
Lebanon.....	-	40	990	-	1,030	.8
Montgomery.....	-	128	80	178	386	.3
Philadelphia.....	-	-	-	-	-	-
SOUTHEASTERN, TOTAL.....	1,387	1,244	6,316	1,579	10,526	8.3
PENNSYLVANIA.....	11,546	18,318	68,579	28,715	127,158	100.0
PERCENT OF TOTAL TREES.....	9.1	14.4	53.9	22.6	100.0	

1/ Some counties are combined to avoid disclosure of individual operations.

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PENNSYLVANIA: PEARS (TOTAL): TREES BY VARIETY AND AGE GROUPS, 1978

Variety	1975 - 1977 (1-3 Years)	1972 - 1974 (4-6 Years)	1957 - 1971 (7-21 Years)	1956 & Earlier (22 Years +)	Total All Ages	Percent Of Total
REGION I:						
Bartlett.....	2,581	6,774	22,616	10,578	42,549	60.4
Bosc.....	1,990	3,551	7,706	891	14,138	20.0
Clapps Favorite....	252	255	745	101	1,353	1.9
D'Anjou.....	588	650	4,912	518	6,668	9.5
Devoe.....	30	5	302	8	345	.5
Gorham.....	-	213	689	212	1,114	1.6
Magness.....	-	60	1,320	39	1,419	2.0
Moonglo.....	-	10	177	-	187	.3
Seckel.....	20	321	736	121	1,258	1.8
Starks.....	-	300	220	7	527	.7
Other.....	70	200	515	118	903	1.3
TOTAL.....	5,501	12,339	39,938	12,593	70,471	100.0
REGION II:						
Bartlett.....	1,266	1,580	13,482	7,533	23,661	70.4
Bosc.....	590	686	1,483	702	3,861	11.5
Clapps Favorite....	47	97	222	118	484	1.4
D'Anjou.....	17	212	1,258	395	1,882	5.6
Gorham.....	17	5	169	132	323	1.0
Magness.....	12	-	65	53	130	.4
Seckel.....	200	84	675	295	1,254	3.7
Starks.....	-	6	345	65	416	1.2
Other.....	209	116	994	291	1,610	4.8
TOTAL.....	2,553	2,786	18,693	9,584	33,621	100.0
REGION III:						
Bartlett.....	1,719	1,982	5,732	2,148	11,581	74.9
Bosc.....	555	401	342	277	1,585	10.3
Clapps Favorite....	-	70	363	175	608	3.9
D'Anjou.....	237	20	215	60	532	3.4
Devoe.....	-	55	331	30	416	2.7
Moonglo.....	105	-	11	-	116	.8
Seckel.....	5	11	42	322	381	2.5
Other.....	113	1	110	11	235	1.5
TOTAL.....	2,745	2,540	7,146	3,023	15,454	100.0
REGION IV:						
Bartlett.....	202	286	713	142	1,343	71.4
Bosc.....	33	2	85	10	130	6.9
Other.....	57	17	255	79	408	21.7
TOTAL.....	292	305	1,053	231	1,881	100.0
REGION V:						
Bartlett.....	182	255	1,061	2,479	3,977	69.4
Bosc.....	108	60	501	508	1,307	22.8
Other.....	30	33	187	197	447	7.8
TOTAL.....	350	348	1,749	3,284	5,731	100.0
ALL REGIONS:						
Bartlett.....	5,750	10,877	43,604	22,580	83,111	65.4
Bosc.....	1,716	4,709	10,117	2,488	21,021	16.5
Clapps Favorite....	309	422	1,424	414	2,569	2.0
D'Anjou.....	847	882	6,416	989	9,136	7.2
Devoe.....	30	65	727	44	866	.7
Gorham.....	57	233	902	411	1,619	1.3
Magness.....	22	62	1,423	92	1,605	1.3
Moonglo.....	202	10	203	-	415	.3
Seckel.....	285	425	1,509	757	2,987	2.3
Starks.....	22	306	614	72	1,014	.8
Other.....	295	336	1,626	558	2,815	2.2
PENNSYLVANIA.....	11,546	18,318	68,579	23,715	127,158	100.0

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CHERRIES

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Number Of Orchards And Trees: The number of commercial tart cherry growers (100+ Trees) has steadily declined since the first commercial fruit tree survey conducted in 1953. Commercial growers (100+ Trees) in 1978 at 140 was down 30 percent from the 201 accounted for in 1972. Commercial tart cherry growers had 183,768 trees in 1978 compared with 217,610 in 1972, a 15 percent decline. Commercial sweet cherry growers at 61 declined 16 percent from 1972 while corresponding tree numbers increased from 28,230 to 33,068, or 17 percent.

Acreage In Orchards: Commercial tart cherry acreage at 1,967 declined 23 percent from 2,550 in 1972 while commercial sweet cherry acreage declined from 526 to 472.5 or 10 percent during the same period. Tart cherry trees per acre increased from 85 in 1972 to 93 in 1978 while sweet cherry trees per acre increased from 54 to 70 in 1978.

Location Of Trees: Adams, Erie, Franklin and York counties contain 94 percent of the total 186,387 tart cherry trees. Fruit Region I accounts for 80 percent of the total trees. For sweet cherries, Lancaster, Erie, Adams, Franklin and Northampton counties contain 73 percent of the 38,019 total trees.

Age Of Trees: Of the total 186,387 tart cherry trees, 14.8 percent were 1-3 years old, 16.8 percent 4-6 years old, 44.4 percent 7-21 years old and 34.0 percent 22 years or older. Of the total 38,019 sweet cherry trees the age percentage breakdown was 16.0, 10.6, 40.6 and 32.8 respectively.

Varieties: Montmorency tart cherry trees account for 97 percent of the total trees, English Morello 2 percent and other varieties 1 percent. Dark sweet cherry trees comprise 72 percent of total trees while light sweet cherry trees accounted for 23 percent. Leading varieties as a percent of the total 38,019 trees are: Windsor — 16.3, Bing — 15.2, Napoleon — 10.1, Hedelfingen — 9.9 and Schmits Biggareau — 9.2.



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PENNSYLVANIA: TART CHERRIES: COMPARISON OF COMMERCIAL AND NON-COMMERCIAL GROWER AND TREE NUMBERS, - 1967, 1972, and 1978

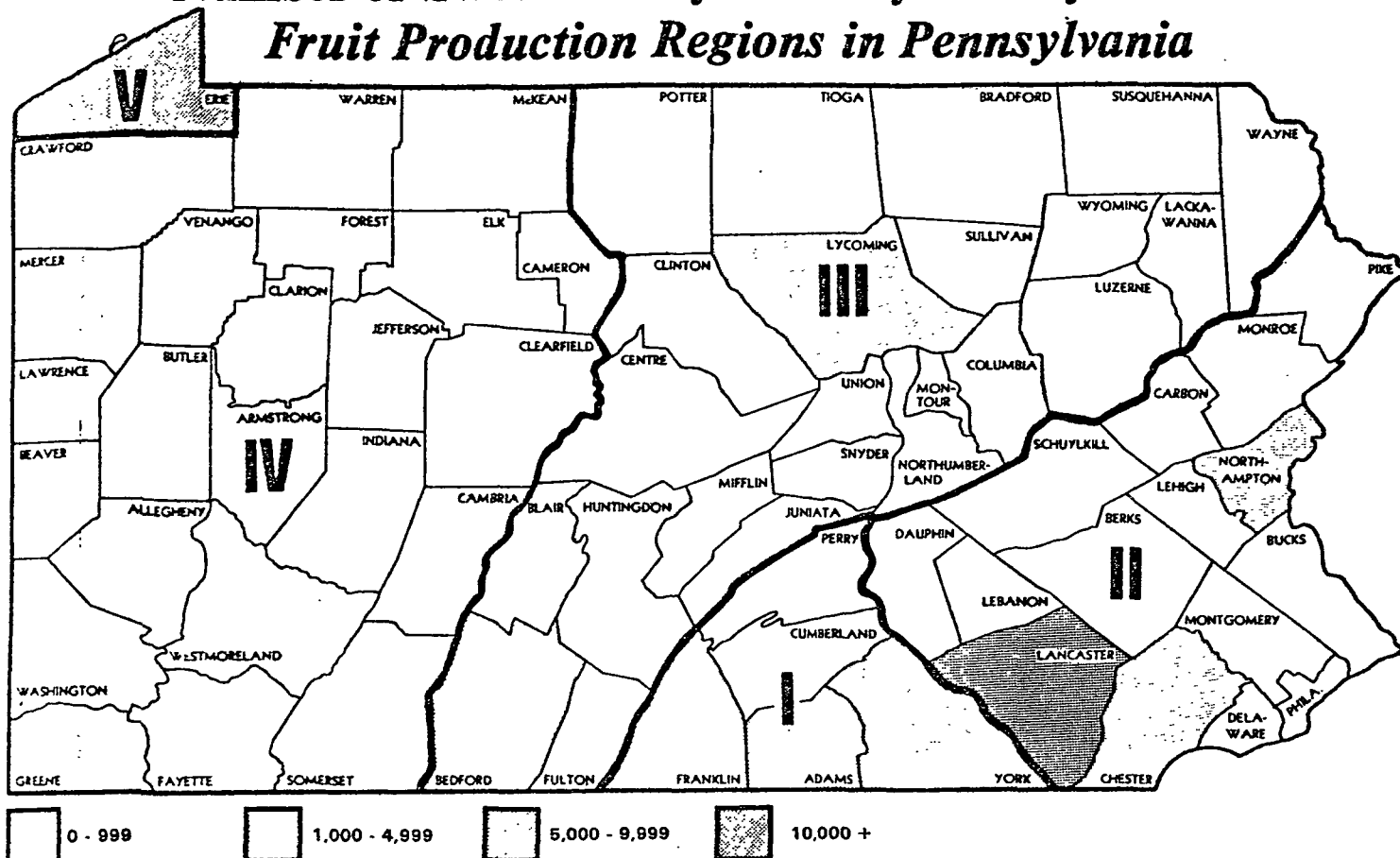
Trees	Number Of Growers			Number Of Trees		
	1967	1972	1978	1967	1972	1978
99.....	198	117	162	4,567	3,057	2,619
100+.....	283	201	140	270,906	217,610	183,768
Total.....	481	318	302	275,473	220,667	186,387

PENNSYLVANIA: SWEET CHERRIES: COMPARISON OF COMMERCIAL AND NON-COMMERCIAL GROWER AND TREE NUMBERS, - 1967, 1972, and 1978

Trees	Number Of Growers			Number Of Trees		
	1967	1972	1978	1967	1972	1978
99.....	300	159	208	6,648	4,113	4,951
100+.....	86	73	61	26,296	28,230	33,068
Total.....	386	232	269	32,944	32,343	38,019

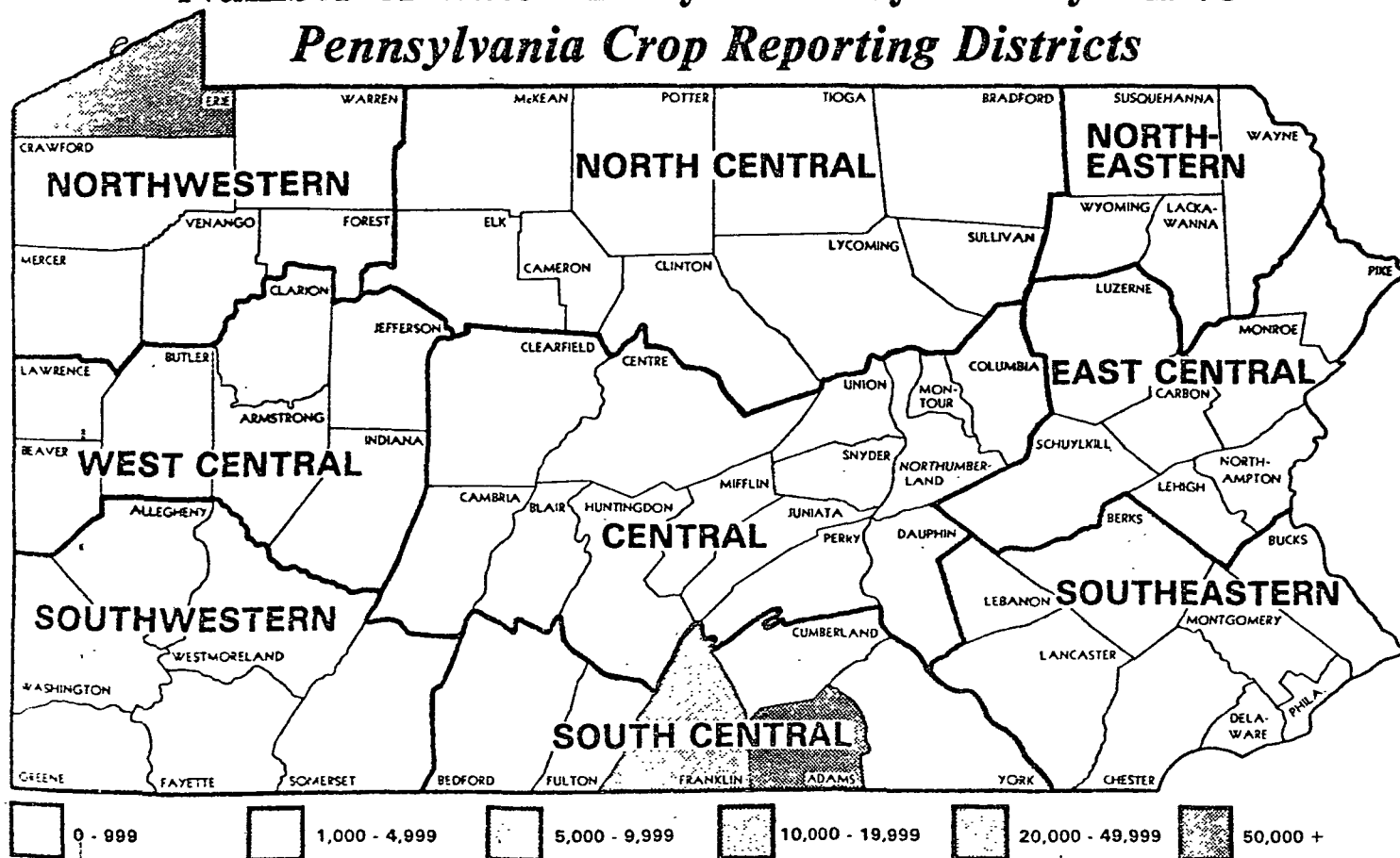
Number of Sweet Cherry Trees by County - 1978

Fruit Production Regions in Pennsylvania



Number of Tart Cherry Trees by County - 1978

Pennsylvania Crop Reporting Districts



PENNSYLVANIA: TART & SWEET CHERRIES (COMMERCIAL): PRODUCTION, DISPOSITION AND VALUE, 1940-1978

Year	Production 1/		Utilization			Price Per Pound 2/	Value Of Utilized Production
	Total	Utilized	Processed				
			Fresh	Canned	All Processed		
<u>Tart Cherries (Mil.Lbs.)</u>							
						<u>Cents</u>	<u>Thous.Dols.</u>
1940.....	12.6	12.6	6.1	5.5	6.5	3.5	441
1950.....	16.8	16.8	5.0	10.4	11.8	8.2	1,378
1960.....	18.0	18.0	2.9	9.8	15.1	8.4	1,512
1970.....	14.0	14.0	.5	5.5	13.5	7.8	1,092
1971.....	12.7	12.7	.9	7.0	11.8	11.3	1,435
1972.....	12.3	11.1	.7	7.9	10.4	8.7	966
1973.....	6.3	6.3	.4	4.7	5.9	19.8	1,247
1974.....	13.1	13.1	.9	8.6	12.2	19.8	2,594
1975.....	12.6	11.5	1.1	6.8	10.4	11.4	1,311
1976.....	7.6	7.6	1.0	5.3	6.6	25.8	1,961
1977.....	3.2	3.2	.5	2.6	2.7	29.8	954
1978.....	6.2	6.2	.8	4.5	5.4	41.7	2,585
<u>Sweet Cherries (Tons)</u>							
						<u>S/Ton</u>	
1940.....	2,200	2,100	-	-	-	105	220
1950.....	1,500	1,500	-	-	-	171	256
1960.....	500	500	-	-	-	370	185
1970.....	600	600	-	-	-	500	300
1971.....	800	800	-	-	-	449	359
1972.....	200	190	-	-	-	415	79
1973.....	660	660	-	-	-	640	422
1974.....	730	730	-	-	-	700	511
1975.....	860	860	-	-	-	730	628
1976.....	460	460	-	-	-	792	364
1977.....	350	350	-	-	-	836	293
1978.....	750	750	-	-	-	836	627

- 1/ Total production is the quantity actually harvested plus quantities not harvested because of economic reasons. Utilized production is the amount sold plus the quantities used at home or held in storage. When total and utilized production are equal, economic abandonment and cullage quantities are considered at a "normal" level.
- 2/ Fresh and processing prices combined.



Photo Credit: Tom Piper

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PENNSYLVANIA: CHERRIES (TOTAL): GROWERS, ACRES, TREES AND PRODUCTION BY COUNTY - 1978 1/

County & District	Growers		Acres		Total Trees		Trees Per Acre		Production 2/		Yield Per Acre 3/	
	Tart	Sweet	Tart	Sweet	Tart	Sweet	Tart	Sweet	Tart	Sweet	Tart	Sweet
	Number						Lbs.					
Crawford & Mercer.....	3	3	.6	.3	55	22	92	73	798	220	1,330	733
Erie.....	32	20	290.8	145.8	23,791	8,999	82	62	404,970	171,865	1,393	1,179
Forest.....	-	-	-	-	-	-	-	-	-	-	-	-
Venango.....	-	-	-	-	-	-	-	-	-	-	-	-
Warren.....	-	-	-	-	-	-	-	-	-	-	-	-
NORTHWESTERN, TOTAL.....	35	23	291.4	146.1	23,846	9,021	82	62	405,768	172,085	1,393	1,178
Bradford.....	4/	4/	4/	4/	4/	4/	4/	4/	4/	4/	4/	4/
Cameron.....	-	-	-	-	-	-	-	-	-	-	-	-
Clinton.....	-	-	-	-	-	-	-	-	-	-	-	-
Elk.....	-	-	-	-	-	-	-	-	-	-	-	-
Lycoming.....	10	9	3.7	9.1	346	1,092	94	120	3,470	2,380	938	262
McKean.....	-	-	-	-	-	-	-	-	-	-	-	-
Potter.....	-	-	-	-	-	-	-	-	-	-	-	-
Sullivan.....	-	-	-	-	-	-	-	-	-	-	-	-
Tioga.....	-	-	-	-	-	-	-	-	-	-	-	-
Lackawanna.....	-	4/	-	4/	-	4/	-	4/	-	4/	-	4/
Susquehanna.....	4/	4/	4/	4/	4/	4/	4/	4/	4/	4/	4/	4/
Wayne.....	-	-	-	-	-	-	-	-	-	-	-	-
Wyoming.....	-	-	-	-	-	-	-	-	-	-	-	-
NORTH CENTRAL & NORTHEASTERN TOTAL..	12	13	10.7	11.5	1,021	1,320	95	115	19,470	6,210	1,820	540
Armstrong, Clarion, and Jefferson...	5	3	3.7	2.5	199	175	54	70	950	100	257	40
Beaver & Lawrence.....	6	7	.3	.4	27	38	90	95	-	-	-	-
Butler.....	-	-	-	-	-	-	-	-	-	-	-	-
Indiana.....	5	3	1.7	.7	133	61	78	87	190	50	112	71
WEST CENTRAL, TOTAL.....	16	13	5.7	3.6	359	274	63	76	1,140	150	200	42
Blair, Cambria, Huntingdon & Mifflin	4	5	7.0	12.6	524	1,018	75	81	10,500	5,700	1,500	452
Centre & Clearfield.....	3	-	10.0	-	800	-	80	-	1,000	-	100	-
Columbia.....	6	5	2.4	3.3	100	122	42	37	1,350	3,910	563	1,185
Dauphin.....	5	6	8.3	18.6	470	769	57	41	6,004	17,074	723	918
Juniata.....	4	7	4.5	12.5	270	946	60	76	6,100	22,250	1,356	1,780
Montour & Northumberland.....	8	9	6.1	3.2	464	205	76	64	15,255	8,584	2,501	2,683
Perry.....	6	4	5.8	3.8	485	203	84	53	7,208	3,500	1,243	921
Snyder.....	7	7	13.3	4.9	1,015	275	76	56	35,970	32,350	2,705	6,602
Union.....	3	3	.1	.5	7	43	70	86	166	1,080	1,660	2,160
CENTRAL, TOTAL.....	46	46	57.5	59.4	4,135	3,581	72	60	83,553	94,448	1,453	1,590
Carbon & Luzerne.....	4	6	.2	.2	12	17	60	85	46	94	230	470
Lehigh.....	8	8	.5	3.0	49	300	98	100	1,095	1,513	2,190	504
Monroe.....	-	-	-	-	-	-	-	-	-	-	-	-
Northampton.....	3	3	2.2	18.1	215	1,958	98	108	6,100	25,000	2,773	1,381
Pike.....	-	-	-	-	-	-	-	-	-	-	-	-
Schuylkill.....	8	9	1.6	1.1	122	68	76	62	1,645	520	1,028	473
EAST CENTRAL, TOTAL.....	23	26	4.5	22.4	398	2,343	88	105	8,886	27,127	1,975	1,211
Allegheny.....	5	5	.5	.3	51	26	102	87	-	-	-	-
Fayette, Somerset & Westmoreland....	6	8	1.8	3.6	151	247	84	69	100	1,630	56	453
Greene.....	-	-	-	-	-	-	-	-	-	-	-	-
SOUTHWESTERN, TOTAL.....	11	13	2.3	3.9	202	273	88	70	100	1,630	44	418
Adams.....	63	37	1,375.4	48.8	133,670	2,838	97	58	2,151,839	55,098	1,565	1,129
Bedford & Fulton.....	5	8	3.0	13.2	297	1,062	99	80	3,500	2,395	1,167	181
Cumberland.....	3	4	17.0	2.8	1,376	131	81	47	12,565	2,850	739	1,018
Franklin.....	15	18	100.8	31.2	10,367	2,241	103	72	116,200	43,325	1,153	1,389
York.....	29	27	51.1	18.0	4,146	1,337	81	74	137,806	15,386	2,697	855
SOUTH CENTRAL, TOTAL.....	115	94	1,547.3	114.0	149,856	7,609	97	67	2,421,910	119,054	1,565	1,044
Berks & Lebanon.....	13	12	34.5	4.6	3,046	470	88	102	60,036	12,315	1,740	2,677
Bucks.....	5	5	5.6	1.6	340	83	61	52	5,285	810	944	506
Chester, Delaware & Montgomery.....	9	7	5.2	23.1	289	1,168	56	51	5,800	9,000	1,115	390
Lancaster.....	17	17	35.8	155.5	2,895	11,877	81	76	44,918	79,633	1,254	512
Philadelphia.....	-	-	-	-	-	-	-	-	-	-	-	-
SOUTHEASTERN, TOTAL.....	44	41	81.1	184.8	6,570	13,598	81	74	116,039	101,758	1,431	551
PENNSYLVANIA.....	302	269	2,000.5	545.7	186,387	38,019	93	70	3,056,866	522,462	1,528	957

1/ Some counties are combined to avoid disclosure of individual operations.

2/ Production in 1977 from acreage maintained for production in 1978.

3/ Actual yield will be slightly higher due to non-bearing acres included in calculations.

4/ Included in North Central and Northeastern total.

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PENNSYLVANIA: TART CHERRIES (TOTAL): GROWERS, ACRES, TREES AND PRODUCTION BY SIZE OF OPERATION AND REGION, 1978

Size Of Operation (Trees)	Growers		Trees		Acres		Production ^{1/}	
	Number	Percent	Number	Percent	Number	Percent	Pounds	Percent
Region I:								
1-99.....	35	30	756	1	9.0	1	14,930	1
100-199.....	19	16	2,440	2	35.5	2	85,365	4
200-499.....	30	25	9,988	7	122.0	8	313,970	13
500-999.....	11	9	7,727	5	78.8	5	255,786	10
1,000-2,499.....	10	9	14,086	9	165.0	11	294,842	12
2,500-4,999.....	7	6	24,660	16	286.0	18	545,698	22
5,000+.....	6	5	90,369	60	851.7	55	915,027	38
Total.....	118	100	150,026	100	1,548.0	100	2,425,618	100
Region II:								
1-99.....	52	74	550	8	7.5	8	9,030	7
100-199.....	5	7	602	8	8.3	9	7,800	6
200-499.....	8	12	2,026	27	28.7	32	43,996	34
500-999.....	5	7	4,272	57	45.5	51	70,101	53
1,000-2,499.....	2/	-	-	-	-	-	-	-
2,500-4,999.....	-	-	-	-	-	-	-	-
5,000+.....	-	-	-	-	-	-	-	-
Total.....	70	100	7,450	100	90.0	100	130,927	100
Region III:								
1-99.....	39	74	665	15	8.0	15	11,583	12
100-199.....	6	11	849	19	13.5	26	13,980	15
200-499.....	8	15	2,948	66	30.9	59	67,750	73
500-999.....	3/	-	-	-	-	-	-	-
1,000-2,499.....	-	-	-	-	-	-	-	-
2,500-4,999.....	-	-	-	-	-	-	-	-
5,000+.....	-	-	-	-	-	-	-	-
Total.....	53	100	4,462	100	52.4	100	93,313	100
Region IV & V:								
1-99.....	36	59	648	3	9.0	3	2,064	-
100-199.....	9	15	1,046	4	12.5	4	9,450	2
200-499.....	7	11	2,278	9	25.5	8	40,200	10
500-999.....	4	7	2,587	11	27.0	9	18,190	5
1,000-2,499.....	5	8	17,890	73	236.1	76	337,104	83
2,500-4,999.....	4/	-	-	-	-	-	-	-
5,000+.....	4/	-	-	-	-	-	-	-
Total.....	61	100	24,449	100	310.1	100	407,008	100
All Regions:								
1-99.....	162	53	2,619	1	33.5	2	37,607	1
100-199.....	39	13	4,937	3	69.8	3	116,595	4
200+.....	101	34	178,831	96	1,897.2	95	2,902,664	95
PENNSYLVANIA.....	302	100	186,387	100	2,000.5	100	3,056,866	100

1/ Production in 1977 from acreage maintained for production in 1978.

2/ Combined with the 500-999 size group to avoid disclosure of individual operations.

3/ Combined with the 200-499 size group to avoid disclosure of individual operations.

4/ Combined with the 1,000-2,499 size group to avoid disclosure of individual operations.

PENNSYLVANIA: SWEET CHERRIES (TOTAL): GROWERS, TREES, ACRES AND PRODUCTION BY SIZE OF OPERATION AND REGION, 1978

Size Of Operation (Trees)	Growers		Trees		Acres		Production ^{1/}	
	Number	Percent	Number	Percent	Number	Percent	Pounds (000)	Percent
1-99.....	208	77	4,951	13	73.2	14	85,301	16
100-199.....	29	11	3,776	10	56.4	10	95,769	18
200-499.....	16	6	5,267	14	88.9	16	103,197	20
500+.....	16	6	24,025	63	327.2	60	238,195	46
PENNSYLVANIA.....	269	100	38,019	100	545.7	100	522,462	100

1/ Production in 1977 from acreage maintained for production in 1978.

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PENNSYLVANIA: TART CHERRIES (TOTAL): COMPARISON OF ORCHARDS AND TREES
OF ALL AGES BY COUNTIES - 1967, 1972 and 1978

County & District	Tree Survey, 1967		Tree Survey, 1972 1/		Tree Survey, 1978	
	Number-Orchards	Total Trees	Number-Orchards	Total Trees	Number-Orchards	Total Trees
Crawford.....	-	-	-	-	2	2/
Erie.....	92	58,587	55	36,869	32	23,791
Forest.....	-	-	-	-	-	-
Mercer.....	-	-	-	-	1	2/
Venango.....	-	-	-	-	-	-
Warren.....	-	-	-	-	-	-
NORTHWESTERN, TOTAL.....	92	58,587	-	-	35	23,846
Bradford.....	2	520	-	-	1	3/
Cameron.....	-	-	-	-	-	-
Clinton.....	1	2/	-	-	-	-
Elk.....	-	-	-	-	-	-
Lycoming.....	3	490	-	-	10	1,021
McKean.....	-	-	-	-	-	-
Potter.....	-	-	-	-	-	-
Sullivan.....	-	-	-	-	-	-
Tioga.....	1	2/	-	-	-	-
NORTH CENTRAL, TOTAL.....	7	1,220	-	-	11	1,021
Lackawanna.....	4	2/	-	-	-	-
Susquehanna.....	1	2/	-	-	1	3/
Wayne.....	2	2/	-	-	-	-
Wyoming.....	1	2/	-	-	-	-
NORTHEASTERN, TOTAL.....	8	231	-	-	1	3/
Armstrong.....	3	140	-	-	3	64
Beaver.....	3	39	-	-	5	22
Butler.....	1	2/	-	-	-	-
Clarion.....	1	2/	-	-	1	2/
Indiana.....	3	68	-	-	5	133
Jefferson.....	1	2/	-	-	1	2/
Lawrence.....	5	42	-	-	1	2/
WEST CENTRAL, TOTAL.....	17	572	-	-	16	359
Blair.....	2	600	-	-	1	2/
Cambria.....	1	2/	-	-	-	-
Centre.....	2	225	-	-	2	2/
Clearfield.....	3	208	-	-	1	2/
Columbia.....	5	2/	4	374	6	100
Dauphin.....	4	606	-	-	5	470
Huntingdon.....	3	365	-	-	1	2/
Juniata.....	6	696	5	380	4	270
Mifflin.....	3	864	-	-	2	2/
Montour.....	1	2/	-	-	2	2/
Northumberland.....	6	307	-	-	6	361
Perry.....	4	2,051	4	1,702	6	485
Snyder.....	12	2,006	9	764	7	1,015
Union.....	1	2/	-	-	3	7
CENTRAL, TOTAL.....	53	8,030	-	-	46	4,135
Carbon.....	1	2/	-	-	3	12
Lehigh.....	10	296	5	96	8	49
Luzerne.....	3	2/	-	-	1	3/
Monroe.....	2	2/	-	-	-	-
Northampton.....	1	2/	-	-	3	215
Pike.....	-	-	-	-	-	-
Schuylkill.....	7	127	6	124	8	122
EAST CENTRAL, TOTAL.....	24	2,171	-	-	23	398
Allegheny.....	8	140	3	81	5	51
Fayette.....	-	-	-	-	1	2/
Greene.....	-	-	-	-	-	-
Somerset.....	1	2/	-	-	1	2/
Washington.....	5	587	3	485	3	21
Westmoreland.....	2	2/	-	-	1	2/
SOUTHWESTERN, TOTAL.....	16	794	-	-	11	202
Adams.....	125	160,697	104	141,249	63	133,670
Bedford.....	8	250	5	329	5	297
Cumberland.....	6	3,308	6	4,669	3	1,376
Franklin.....	35	24,033	20	12,492	15	10,367
Fulton.....	-	-	-	-	-	-
York.....	34	9,030	29	11,379	29	4,146
SOUTH CENTRAL, TOTAL.....	208	197,318	-	-	115	149,856
Berks.....	18	2,290	10	1,035	12	1,411
Bucks.....	8	207	4	95	5	340
Chester.....	6	306	-	-	6	253
Delaware.....	2	2/	-	-	3	36
Lancaster.....	16	1,879	12	2,054	17	4,530
Lebanon.....	3	1,891	-	-	1	3/
Montgomery.....	3	2/	-	-	-	-
Philadelphia.....	-	-	-	-	-	-
SOUTHEASTERN, TOTAL.....	56	6,550	-	-	44	6,570
TOTAL, OTHER.....	-	-	34	6,490	-	-
PENNSYLVANIA.....	461	276,473	313	220,657	302	186,387

1/ Comparable data only available on counties listed for 1972 survey. 2/ Not published to avoid disclosure of individual operations.
3/ Bradford and Susquehanna Counties combined with Lycoming Co., Luzerne Co. combined with Carbon Co., Lebanon Co. combined with Lancaster Co. to avoid disclosure of individual operations.

PENNSYLVANIA: TART CHERRIES (TOTAL): NUMBER OF TREES BY COUNTIES AND AGE GROUPS, 1978 1/

County And District	Number Of Trees Maintained For Production According To Year Set Out					Percent Of Total
	1975-1977 (1-3 Yrs.)	1972-1974 (4-6 Yrs.)	1957-1971 (7-21 Yrs.)	1956 & Earlier (22 Yrs +)	Total All Ages	
Crawford & Mercer.....	34	-	3	18	55	-
Erie.....	-	2,674	2,023	19,094	23,791	12.8
Forest.....	-	-	-	-	-	-
Venango.....	-	-	-	-	-	-
Warren.....	-	-	-	-	-	-
NORTHWESTERN, TOTAL.....	34	2,674	2,026	19,112	23,846	12.8
Bradford, Susquehanna & Lycoming.....	272	234	400	115	1,021	.6
Cameron.....	-	-	-	-	-	-
Clinton.....	-	-	-	-	-	-
Elk.....	-	-	-	-	-	-
McKean.....	-	-	-	-	-	-
Potter.....	-	-	-	-	-	-
Sullivan.....	-	-	-	-	-	-
Tioga.....	-	-	-	-	-	-
Lackawanna.....	-	-	-	-	-	-
Wayne.....	-	-	-	-	-	-
Wyoming.....	-	-	-	-	-	-
NORTH CENTRAL & NORTHEASTERN, TOTAL.....	272	234	400	115	1,021	.6
Armstrong, Clarion & Jefferson.....	-	-	154	45	199	.1
Beaver & Lawrence.....	2	-	18	7	27	-
Butler.....	-	-	-	-	-	-
Indiana.....	-	12	117	4	133	.1
WEST CENTRAL, TOTAL.....	2	12	289	56	359	.2
Blair, Huntingdon & Mifflin.....	210	34	250	30	524	.3
Cambria.....	-	-	-	-	-	-
Centre & Clearfield.....	200	350	125	125	800	.4
Columbia.....	35	8	55	2	100	-
Dauphin.....	47	171	15	237	470	.3
Junata.....	30	-	240	-	270	.1
Northumberland & Montour.....	252	10	102	100	464	.3
Perry.....	125	13	132	215	485	.3
Snyder.....	704	-	183	128	1,015	.5
Union.....	-	1	3	3	7	-
CENTRAL, TOTAL.....	1,603	587	1,105	840	4,135	2.2
Lehigh.....	18	9	10	12	49	-
Luzerne & Carbon.....	7	-	-	5	12	-
Monroe.....	-	-	-	-	-	-
Northampton.....	105	-	110	-	215	.1
Pike.....	-	-	-	-	-	-
Schuylkill.....	2	3	112	5	122	.1
EAST CENTRAL, TOTAL.....	132	12	232	22	398	.2
Allegheny.....	-	1	20	30	51	-
Fayette, Somerset & Westmoreland.....	70	-	60	-	130	.1
Greene.....	-	-	-	-	-	-
Washington.....	2	-	19	-	21	-
SOUTHWESTERN, TOTAL.....	72	1	99	30	202	.1
Adams.....	23,028	22,372	48,391	39,879	133,670	71.7
Bedford.....	-	60	225	12	297	.2
Cumberland.....	20	165	525	666	1,376	.7
Franklin.....	550	3,600	5,666	551	10,367	5.6
Fulton.....	-	-	-	-	-	-
York.....	822	680	2,017	627	4,146	2.2
SOUTH CENTRAL, TOTAL.....	24,420	26,877	56,824	41,735	149,856	80.4
Berks & Lebanon.....	8	419	1,959	660	3,046	1.7
Bucks.....	85	8	217	30	340	.2
Chester.....	158	20	75	-	253	.1
Delaware.....	2	-	33	1	36	-
Lancaster.....	809	395	806	885	2,895	1.5
Montgomery.....	-	-	-	-	-	-
Philadelphia.....	-	-	-	-	-	-
SOUTHEASTERN, TOTAL.....	1,062	842	3,090	1,576	6,570	3.5
PENNSYLVANIA.....	27,597	31,239	64,065	63,486	186,387	100.0
PERCENT OF TOTAL TREES.....	14.8	16.8	34.4	34.0	100.0	-

1/ Some counties are combined to avoid disclosure of individual operations.

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PENNSYLVANIA: SWEET CHERRIES (TOTAL): TREES BY VARIETY AND AGE GROUPS - 1978

Variety	1975-1977 (1-3 Years)	1972-1974 (4-6 Years)	1957-1971 (7-21 Years)	1956 & Earlier (22 Years +)	Total All Ages	Percent Of Total
DARK:						
Bing.....	741	1,109	2,490	1,439	5,779	15.2
Black Tartarian.....	129	207	293	293	922	2.4
Hedelfingen.....	950	536	1,274	995	3,755	9.9
Lambert.....	87	113	690	140	1,030	2.7
Smidts Biggereau....	916	295	1,430	871	3,512	9.2
Vista.....	429	192	542	210	1,373	3.6
Windsor.....	160	261	2,466	3,302	6,189	16.3
Other.....	719	507	2,533	960	4,719	12.4
TOTAL DARK.....	4,131	3,220	11,718	8,210	27,279	71.7
LIGHT:						
Emperor Francis.....	273	280	755	431	1,739	4.6
Napoleon.....	22	77	959	2,775	3,833	10.1
Starks Gold.....	42	124	628	123	917	2.4
Other.....	1,616	318	1,384	933	4,251	11.2
TOTAL LIGHT.....	1,953	799	3,726	4,262	10,740	28.3
TOTAL ALL VARIETIES....	6,084	4,019	15,444	12,472	38,019	100.0
PERCENT OF TOTAL.....	16.0	10.6	40.6	32.8	100.0	

PENNSYLVANIA: TART CHERRIES (TOTAL): TREES BY VARIETY AND AGE GROUPS - 1978

Variety	1975-1977 (1-3 Years)	1972-1974 (4-6 Years)	1957-1971 (7-21 Years)	1956 & Earlier (22 Years +)	Total All Ages	Percent Of Total
Montmorency.....	27,467	29,825	62,794	60,873	180,959	97.1
English Morello.....	-	1,000	603	2,407	4,010	2.2
Other.....	130	414	668	206	1,418	.7
TOTAL ALL VARIETIES....	27,597	31,239	64,065	63,486	186,387	100.0

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GRAPES

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Number And Location Of Vineyards: The number of commercial grape vineyards (2+ Acres) increased from 348 in 1972 to 436 in 1978, a 25 percent increase. Of the total 474 vineyards in 1978, 361 or 76 percent were in Erie County. The number of vineyards throughout the rest of Pennsylvania more than doubled from 1972.

Acreage In Vineyards: The acreage in commercial grape vineyards in 1978 was 14,245.4 compared with 9,865.8 in 1972, a 44 percent increase. Of the total 436 commercial vineyards 177 with 20.0 acres or more accounted for 86 percent of all commercial grape acreage. Geneva double curtain acreage increased from 657.1 acres in 1972 to 2,771.9 acres in 1978. This is 19.4 percent of the total 14,271.3 acres. An additional 90.9 acres of Geneva double curtain were intended for 1978.

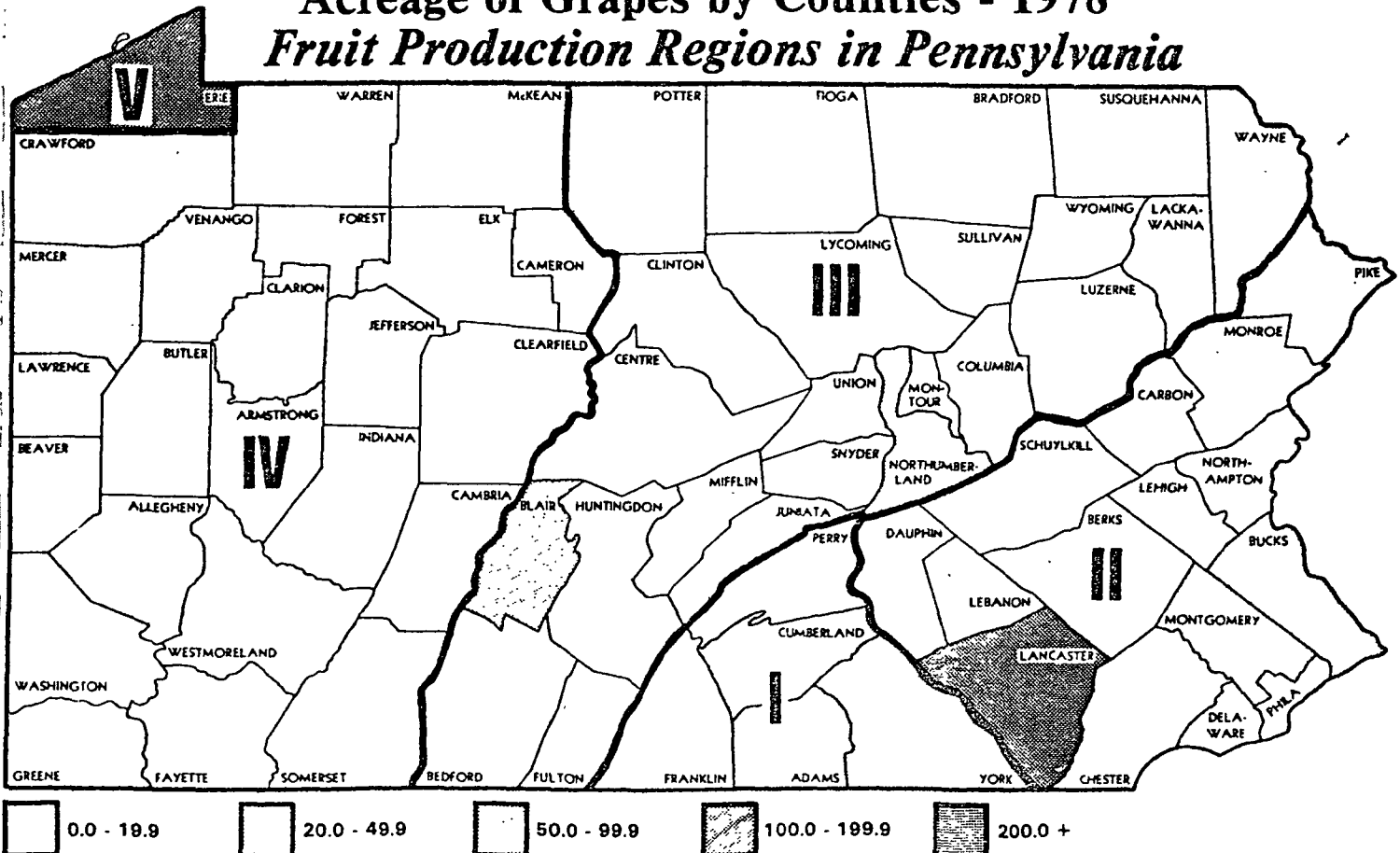
Age Of Grape Acreage: Of the total 14,271.3 acres of grapes, 10.0 percent were 1-3 years old, 9.3 percent 4-6 years old and 80.7 percent 7 years or older. For Concord acreage 7.8 percent was 1-3 years old, 5.4 percent 4-6 years old and 86.7 percent 7 years or older.

Varieties: Concord acreage at 11,751.2 accounted for 82.3 percent of the total 14,271.3 acres. Although all varieties increased in acreage since 1972, French Hybrids, Delaware and Catawba acreage more than doubled. Of all the French Hybrid acreage in the 1-3 year age group 80 percent was in counties other than Erie. This is primarily due to an increased number of wineries established in recent years.

PENNSYLVANIA: GRAPES (TOTAL): COMPARISON OF NUMBER OF VINEYARDS AND ACRES BY REGION, 1972 & 1978.

Region	1972 Survey		1978 Survey	
	Number Of Vineyards	Number Of Acres	Number Of Vineyards	Number Of Acres
I.....	7	12.3	16	90.4
II.....	14	36.1	56	251.5
III.....	13	22.8	21	163.6
IV.....	12	17.6	20	97.7
V.....	333	9,798.9	361	13,668.1
PENNSYLVANIA.....	379	9,887.7	474	14,271.3

Acreage of Grapes by Counties - 1978 *Fruit Production Regions in Pennsylvania*



PENNSYLVANIA: GRAPES (TOTAL): GROWERS, ACRES AND PRODUCTION BY SIZE OF OPERATION, 1972 And 1978 1/

Size Of Operation In Acres	Growers				Acres				Production				Yield		Geneva Double Curtain Acres		
	Number		Percent		Number		Percent		Tons		Percent		Tons/Acre				
	1972	1978	1972	1978	1972	1978	1972	1978	1972	1977	1972	1977	1972	1977	1972	1977	1978
.1-1.9.....	31	38	8	8	21.9	25.9	-	-	67	30	-	-	3.1	1.2	-	3.2	3.2
2.0-4.9.....	45	80	12	17	142.6	236.0	1	2	609	393	1	1	4.3	1.7	2.5	19.6	20.6
5.0-9.9.....	75	90	20	19	499.7	579.7	5	4	2400	1134	5	4	4.8	2.0	5.0	80.2	86.6
10.0-19.9.....	73	89	19	19	937.4	1202.0	10	8	4922	2524	10	8	5.0	2.1	16.5	86.6	92.6
20.0-49.9.....	104	105	28	22	3138.6	3243.5	32	23	16007	7856	34	24	5.1	2.4	109.6	289.5	294.5
50.0-99.9.....	35	44	9	9	2525.6	3022.7	26	21	11884	7544	25	23	4.7	2.5	70.5	481.2	533.2
100.0-199.9.....	11	20	3	4	1425.4	2761.0	14	19	6561	6625	14	21	4.6	2.4	83.0	836.1	841.1
200.0 & Over...	4	8	1	2	1145.5	3200.5	12	23	5269	6127	11	19	4.6	1.9	370.0	975.5	991.0
PENNSYLVANIA...	379	474	100	100	9887.7	14271.3	100	100	47719	32233	100	100	4.8	2.3	657.1	2771.9	2862.8

1/ Production in 1977 from acreage maintained for production in 1978.

PENNSYLVANIA: GRAPES (TOTAL): GROWERS, ACRES AND PRODUCTION BY COUNTY AND REGION - 1978

County & Region	Growers	Acres	Production - Tons <u>1/</u>	
			Harvested	Not Harvested
REGION I:				
Adams.....	4	20.3	28.4	6.0
Cumberland.....	4	20.4	19.5	-
York.....	8	49.7	22.4	3.0
TOTAL.....	16	90.4	70.3	9.0
REGION II:				
Berks.....	6	12.3	9.5	-
Bucks.....	8	36.0	50.2	-
Dauphin.....	3	12.6	12.2	-
Lancaster.....	17	111.6	141.4	4.0
Lehigh.....	4	11.5	7.0	3.8
Montgomery.....	6	30.4	41.7	1.5
Other.....	12	37.1	35.2	1.1
TOTAL.....	56	251.5	297.2	10.4
REGION III:				
Blair.....	4	76.1	250.0	-
Luzerne.....	3	9.3	.2	.2
Northumberland.....	4	30.0	15.6	.1
Other.....	10	48.2	24.8	-
TOTAL.....	21	163.6	290.6	.3
REGION IV:				
Allegheny.....	6	19.5	1.3	-
Indiana.....	3	12.9	2.2	-
Mercer.....	3	43.0	60.0	-
Other.....	8	22.3	13.8	-
TOTAL.....	20	97.7	77.3	-
REGION V:				
Erie.....	351	13,668.1	31,497.8	195.0
Total.....	351	13,668.1	31,497.8	195.0
PENNSYLVANIA.....	474	14,271.3	32,233.2	214.7

1/ Production in 1977 from acreage maintained for production in 1978

PENNSYLVANIA: GRAPES (TOTAL): NUMBER OF GRAPE VINEYARDS BY SIZE OF OPERATION AND COUNTY - 1978

County	Number Of Vineyard Acres In Each Size Group								Total
	.1-1.9	2.0-4.9	5.0-9.9	10.0-19.9	20.0-49.9	50.0-99.9	100.0-199.9	200.0 & Over	
Erie.....	2	41	65	79	100	43	20	8	361
Other Counties.....	36	36	25	10	5	1	-	-	113
PENNSYLVANIA.....	38	80	90	89	105	44	20	8	474

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PENNSYLVANIA: GRAPES (TOTAL): NUMBER OF GROWERS, ACRES OF VINES BY VARIETY, COUNTY & AGE GROUPS

Variety	County	Number Of Growers	Number Of Acres Maintained For Production According To Year Set Out				Geneva Double Curtain	
			1975-1977 (1-3 Years)	1972-1974 (4-6 Years)	1971 & Older (7 Years +)	Total Acres All Ages	Total Acres 1977	Total Acres Intended 1978
Catawba.....	Erie	77	202.5	305.0	394.4	901.9	197.0	197.0
	Other	15	4.6	6.8	1.4	12.8	3.7	4.7
	PA.....	92	207.1	311.8	395.8	914.7	200.7	201.7
Concord.....	Erie	355	890.9	621.0	10103.2	11615.1	2222.0	2307.6
	Other	64	26.4	17.7	92.0	136.1	1.4	1.4
	PA.....	419	917.3	638.7	10195.2	11751.2	2223.4	2309.0
Delaware.....	Erie	35	16.0	22.5	315.9	354.4	189.0	189.0
	Other	18	3.5	11.3	3.5	18.3	2.2	3.6
	PA.....	53	19.5	33.8	319.4	372.7	191.2	192.6
Fredonia.....	Erie	10	-	.7	36.6	37.3	8.0	8.0
	Other	16	8.6	1.0	11.7	21.3	1.2	1.2
	PA.....	26	8.6	1.7	48.3	58.6	9.2	9.2
Niagara.....	Erie	79	87.4	61.8	287.3	436.5	78.8	80.8
	Other	34	2.6	5.0	27.1	34.7	2.4	3.3
	PA.....	113	90.0	66.8	314.4	471.2	81.2	84.1
Aurora.....	Erie	4	-	1.5	16.0	17.5	3.0	3.0
	Other	12	12.8	2.4	.9	16.1	-	-
	PA.....	16	12.8	3.9	16.9	33.6	3.0	3.0
Baco Noir.....	Erie	11	3.4	3.8	10.0	17.2	8.5	8.5
	Other	10	2.1	10.2	.6	12.9	-	-
	PA.....	21	5.5	14.0	10.6	30.1	8.5	8.5
Chancellor.....	Erie	5	10.0	5.6	6.3	21.9	5.0	5.0
	Other	11	10.4	9.6	.2	20.2	-	-
	PA.....	16	20.4	15.2	6.5	42.1	5.0	5.0
Chelois.....	Erie	5	1.5	6.0	3.5	11.0	-	-
	Other	18	2.8	28.9	5.1	36.8	-	-
	PA.....	23	4.3	34.9	8.6	47.8	-	-
DeChanac.....	Erie	3	-	4.8	4.0	8.8	4.8	4.8
	Other	14	10.9	11.6	-	22.5	-	-
	PA.....	17	10.9	16.4	4.0	31.3	4.8	4.8
Seyval Blanc....	Erie	12	2.0	18.8	28.0	48.8	8.5	8.5
	Other	22	14.1	30.7	5.6	50.4	2.0	2.0
	PA.....	34	16.1	49.5	33.6	99.2	10.5	10.5
Fosh.....	Erie	3	-	-	9.0	9.0	-	-
	Other	24	10.6	21.9	2.4	34.9	2.0	2.0
	PA.....	27	10.6	21.9	11.4	43.9	2.0	2.0
Vidal 256.....	Erie	8	15.0	6.0	6.5	27.5	8.0	8.0
	Other	14	10.3	18.5	-	28.8	-	-
	PA.....	22	25.3	24.5	6.5	56.3	8.0	8.0
Other Native....	Erie	35	5.1	32.0	69.7	106.8	19.2	19.2
	Other	29	14.8	4.3	24.3	43.4	1.2	1.2
	PA.....	64	19.9	36.3	94.0	150.2	20.4	20.4
Other French Hybrids.....	Erie	8	-	3.5	16.6	20.1	2.0	2.0
	Other	37	53.8	30.7	17.4	101.9	2.0	2.0
	PA.....	45	53.8	34.2	34.0	122.0	4.0	4.0
Total Native....	Erie	1/	1201.9	1043.0	11207.1	13452.0	2714.0	2801.6
	Other	1/	60.5	46.1	160.0	266.6	12.1	15.4
	PA.....	1/	1262.4	1089.1	11367.1	13718.6	2726.1	2817.0
Total French Hybrids.....	Erie	1/	31.9	50.0	99.9	181.8	39.8	39.8
	Other	1/	127.8	164.5	32.2	324.5	6.0	6.0
	PA.....	1/	159.7	214.5	132.1	506.3	45.8	45.8
Total Vinifera.	Erie	5	1.3	12.0	21.0	34.3	-	-
	Other	12	5.2	5.0	1.9	12.1	-	-
	PA.....	17	6.5	17.0	22.9	46.4	-	-
Total All Varieties.	Erie	361	1235.1	1105.0	11328.0	13668.1	2753.8	2841.4
	Other	113	193.5	215.6	194.1	603.2	18.1	21.4
	PA.....	474	1428.6	1320.6	11522.1	14271.3	2771.9	2862.8

Percent Of All Acres

10.0

9.3

80.7

100.0

19.4

-

1/ Data unavailable.

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PENNSYLVANIA: GRAPES (TOTAL): COMPARISON OF VARIETIES BY ACRES, 1972 & 1978

Variety	1972 Survey Acres	Percent Of Total	1978 Survey Acres	Percent Of Total	Percent Change 78/72
Catawba.....	344.5	3.5	914.7	6.4	+166
Concord.....	8,835.3	89.3	11,751.2	82.3	+ 33
Delaware.....	130.8	1.3	372.7	2.6	+185
Fredonia.....	56.3	.6	58.6	.4	+ 4
Niagara.....	236.6	2.4	471.2	3.3	+ 99
Other Native.....	85.0	.9	150.2	1.1	+ 77
Total Native.....	9,688.5	98.0	13,718.6	96.1	+ 42
Total French Hybrids.....	176.3	1.8	506.3	3.6	+187
Total Vinifera.....	22.9	.2	46.4	.3	+103
Total All Varieties.....	9,887.7	100.0	14,271.3	100.0	+ 44

PENNSYLVANIA: GRAPES: AVERAGE PRICE PAID BY PENNSYLVANIA WINERIES AND PROCESSORS FOR PENNSYLVANIA GROWN GRAPES BY VARIETY 1976-1978 1/- 2/

Year	Concord	Catawba	Delaware	Niagara	Other Native	French Hybrids	Other	Average
1976.....	\$ 195	\$ 128	\$ 198	\$ 170	\$ 250	\$ 258	\$ 600	\$ 193
1977.....	254	175	199	220	225	304	744	252
1978.....	210	226	279	177	301	326	861	212

1/ Dollars Per Ton. 2/ Source - Grape production and utilization survey.

PENNSYLVANIA: GRAPES (COMMERCIAL): PRODUCTION, DISPOSITION AND VALUE, 1930-1978

Year	Production 1/		Utilization				Price Per Unit 2/	Value Of Production
	Total	Utilized	Fresh	Juice	Other Sales	All Sales		
							\$/Ton	Thous.Dols.
1930.....	22,400	22,400	4,680	-	17,720	22,400	43	963
1940.....	17,300	17,300	10,350	6,950	3/	17,300	39	675
1950.....	30,900	29,700	2,900	26,800	3/	29,700	112	3,326
1960.....	33,500	33,500	1,940	31,560	3/	33,500	119	3,996
1970.....	45,000	45,000	1,800	36,230	3,970	45,000	147	6,615
1971.....	57,000	57,000	2,170	51,470	3,360	57,000	137	7,809
1972.....	37,600	37,600	2,275	32,410	2,915	37,600	172	6,467
1973.....	40,000	40,000	2,390	33,367	4,243	40,000	221	8,840
1974.....	53,000	53,000	1,275	42,217	9,508	53,000	198	10,494
1975.....	48,000	48,000	1,660	39,250	7,090	48,000	168	8,064
1976.....	59,000	59,000	1,350	46,270	11,380	59,000	168	9,912
1977.....	30,000	29,650	1,350	23,350	4,950	29,650	231	6,849
1978.....	57,500	57,500	1,300	42,300	13,900	57,500	232	13,340

1/ Total production is the quantity actually harvested plus quantities not harvested because of economic reasons. Utilized production is the amount sold plus the quantities used at home or held in storage. When total and utilized production are equal, economic abandonment cullage quantities are considered at a "normal" level.

2/ Fresh and processing prices combined.

3/ Included in fresh sales.

PENNSYLVANIA: GRAPES: QUANTITY OF PENNSYLVANIA GROWN GRAPES
BY VARIETY DELIVERED TO WINERIES AND PROCESSING PLANTS, 1976-1978 1/

Variety	Pennsylvania Plants And Wineries			Out-Of-State Plants And Wineries			Total 2/		
	1976	1977	1978	1976	1977	1978	1976	1977	1978
<u>Tons</u>									
Concord.....	42,690.6	21,409.5	38,622.6	10,155.0	5,155.0	13,490.0	52,845.6	26,564.5	52,112.6
Catawba.....	-2-	-2-	-2-	-2-	-2-	-2-	2,092.9	693.1	1,523.4
Delaware.....	-3-	-3-	-3-	-3-	-3-	-3-	194.9	152.7	239.4
Niagara.....	-4-	-4-	-4-	-4-	-4-	-4-	1,489.4	712.5	1,300.2
Other Native.....	-5-	-5-	-5-	-5-	-5-	-5-	176.9	89.2	179.8
(2+3+4+5).....	1,862.1	1,054.5	2,478.8	2,092.0	593.0	764.0	3,954.1	1,647.5	3,242.8
French Hybrid.....	592.1	517.0	696.7	187.0	43.0	73.9	779.1	560.0	770.6
Other.....	47.9	7.9	17.6	0.0	0.0	0.0	47.9	7.9	17.6
TOTAL.....	45,192.7	22,988.9	41,815.7	12,434.0	5,791.0	14,327.9	57,626.7	28,779.9	56,143.6

1/ Source - Grape production and utilization survey.

2/ Excludes small amount of cullage.

PENNSYLVANIA: GRAPES: UTILIZATION BY VARIETY OF GRAPES USED IN PENNSYLVANIA
WINERIES AND PROCESSING PLANTS, 1976-1978 1/

Variety	Wine			Sweet Juice + Other			Total 2/		
	1976	1977	1978	1976	1977	1978	1976	1977	1978
<u>Tons</u>									
Concord.....	258.5	1,143.0	2,508.9	72,097.0	32,829.9	57,836.2	72,355.5	33,972.9	60,345.1
Catawba.....	912.3	311.1	1,070.4	0.0	0.0	0.0	912.3	311.1	1,070.4
Delaware.....	72.9	141.7	295.5	0.0	0.0	0.0	72.9	141.7	295.5
Niagara.....	282.4	334.5	565.6	2,295.0	1,199.0	2,015.0	2,577.4	1,533.5	2,580.6
Other Native.....	140.9	134.2	248.7	0.0	0.0	0.0	140.9	134.2	248.7
French Hybrid.....	705.8	595.1	847.6	0.0	0.0	0.0	705.8	595.1	847.6
Other.....	51.3	9.7	25.6	0.0	0.0	0.0	51.3	9.7	25.6
TOTAL.....	2,424.1	2,669.3	5,562.3	74,392.0	34,028.9	59,851.2	76,816.1	36,698.2	65,413.5

1/ Source -

2/ Excludes small amount of cullage.

PENNSYLVANIA: GRAPES: UTILIZATION BY VARIETY OF PENNSYLVANIA GROWN GRAPES TO
ALL WINERIES AND PROCESSORS, 1976-1978 1/

Year	Tons							
	Concord	Catawba	Delaware	Niagara	Other Native	French Hybrids	Other Varieties	Total 2/
<u>Wine</u>								
1976.....	8,055.6	2,092.9	194.9	305.4	176.9	779.1	47.9	11,643.7
1977.....	4,383.2	693.1	152.7	239.5	89.2	560.0	7.9	6,125.6
1978.....	10,605.3	1,523.4	239.4	510.2	179.8	770.6	17.6	13,846.3
<u>Juice + Other</u>								
1976.....	44,790.0	0.0	0.0	1,184.0	0.0	0.0	0.0	45,983.0
1977.....	22,103.3	0.0	0.0	473.0	0.0	78.0	0.0	22,654.3
1978.....	41,507.3	0.0	0.0	790.0	0.0	0.0	0.0	42,297.3
<u>Total</u>								
1976.....	52,845.6	2,092.9	194.9	1,489.4	176.9	779.1	47.9	57,626.7
1977.....	26,486.5	693.1	152.7	712.5	89.2	638.6	7.9	28,779.9
1978.....	52,112.6	1,523.4	239.4	1,300.2	179.8	770.6	17.6	56,143.6

1/ Source -

2/ Excludes small amount of cullage.

PLUMS AND PRUNES

Number Of Orchards And Trees: There were 78 commercial plum and prune orchards (100+ Trees) in 1978 compared with 108 in 1972, a 28 percent decrease. Corresponding tree numbers decreased from 36,327 in 1972 to 29,120 in 1978, down 20%.

Acreage In Orchards: Commercial plum and prune acreage declined 26 percent from 431 acres in 1972 to 319.3 acres in 1978. Trees per acre increased from 84 in 1972 to 91 in 1978.

Location of Trees: Fruit Region I accounts for 54 percent of the total 35,479 trees. Adams county alone accounts for 33 percent of all trees. The leading four counties (Adams, Franklin, Dauphin and Erie) account for 60 percent of the total trees.

Age Of Trees: Of the 35,479 total plum and prune trees, 12.6 percent were 1-3 years old, 15.8 percent 4-6 years old, 58.6 percent 7-21 years old and 13.0 percent 22 years old or older.

Varieties: European varieties accounted for 72 percent of the total 35,479 trees while Japanese varieties comprised 19 percent and other varieties 9 percent. Stanley is the leading variety accounting for 42 percent of the total trees. Other leading varieties as a percent of total trees are: Fellenburg — 5, President — 4, Bluefree and Shiro Gold — 3.

PENNSYLVANIA: PLUMS & PRUNES - COMPARISON OF COMMERCIAL & NON COMMERCIAL GROWER AND TREE NUMBERS, 1967, 1972, 1978

Trees	Number Of Growers			Number Of Trees		
	1967	1972	1978	1967	1972	1978
1 - 99 1/.....	236	173	241	7,332	5,246	6,359
100 +.....	127	108	78	42,173	36,327	29,120
TOTAL 1/.....	363	281	319	49,505	41,573	35,479

1/ Include trees in orchards classified as commercial (100 + Trees) for any fruit.

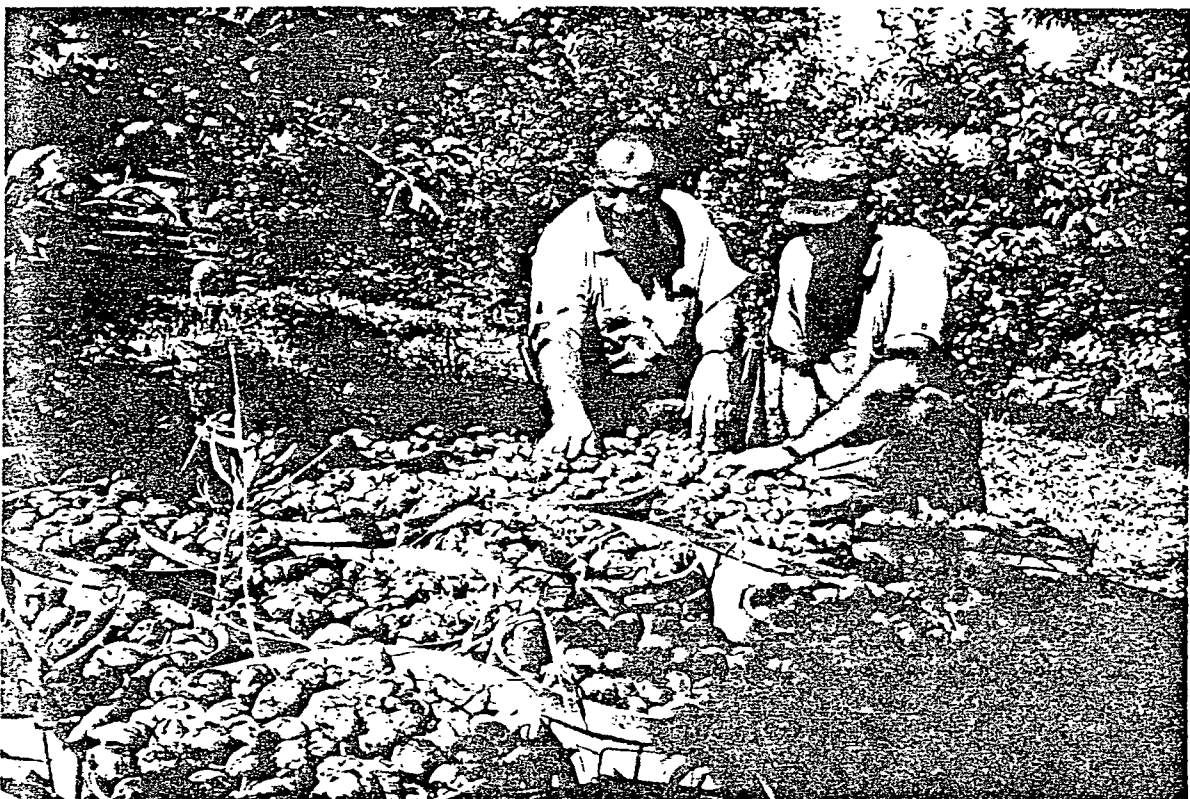
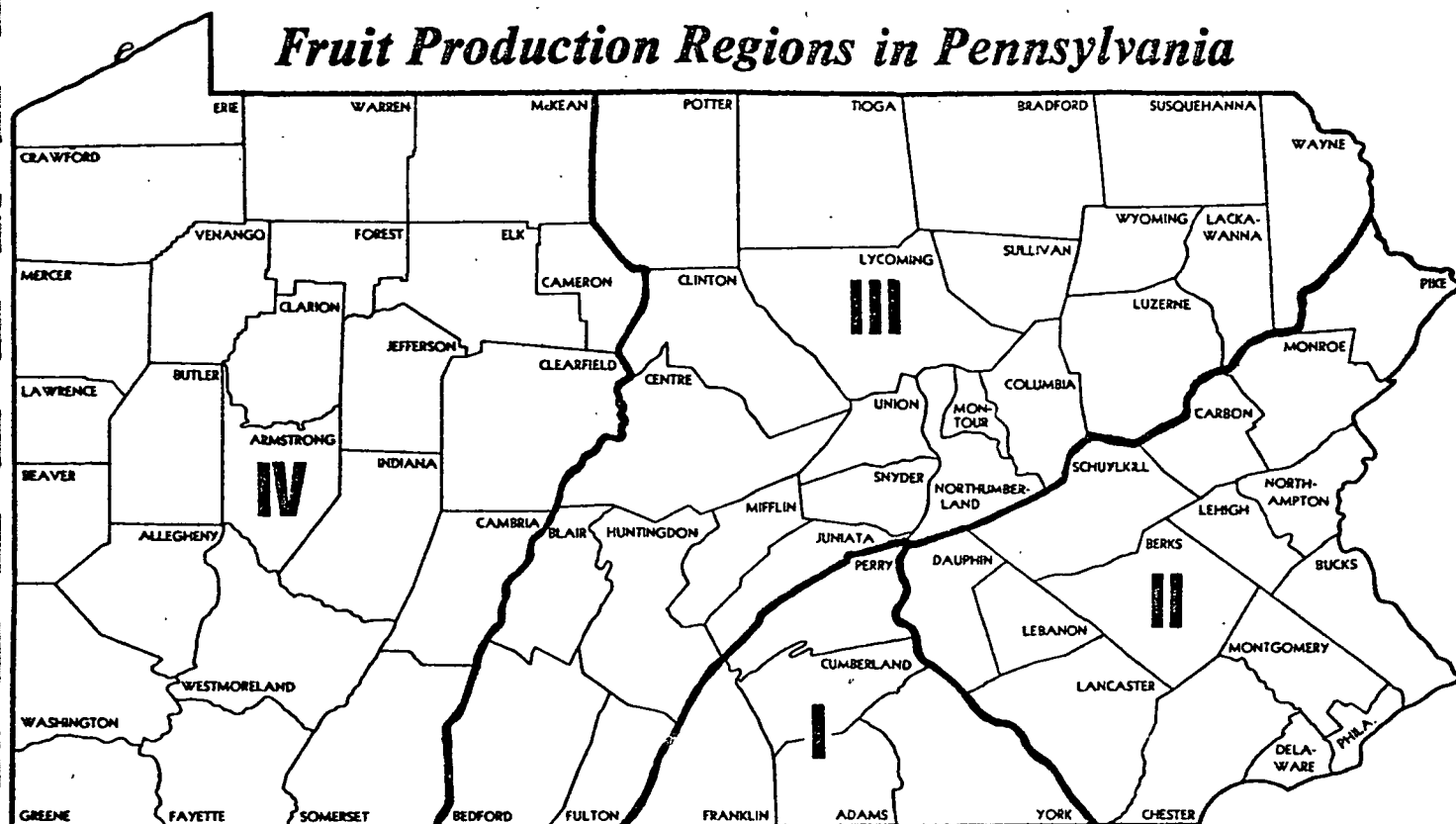


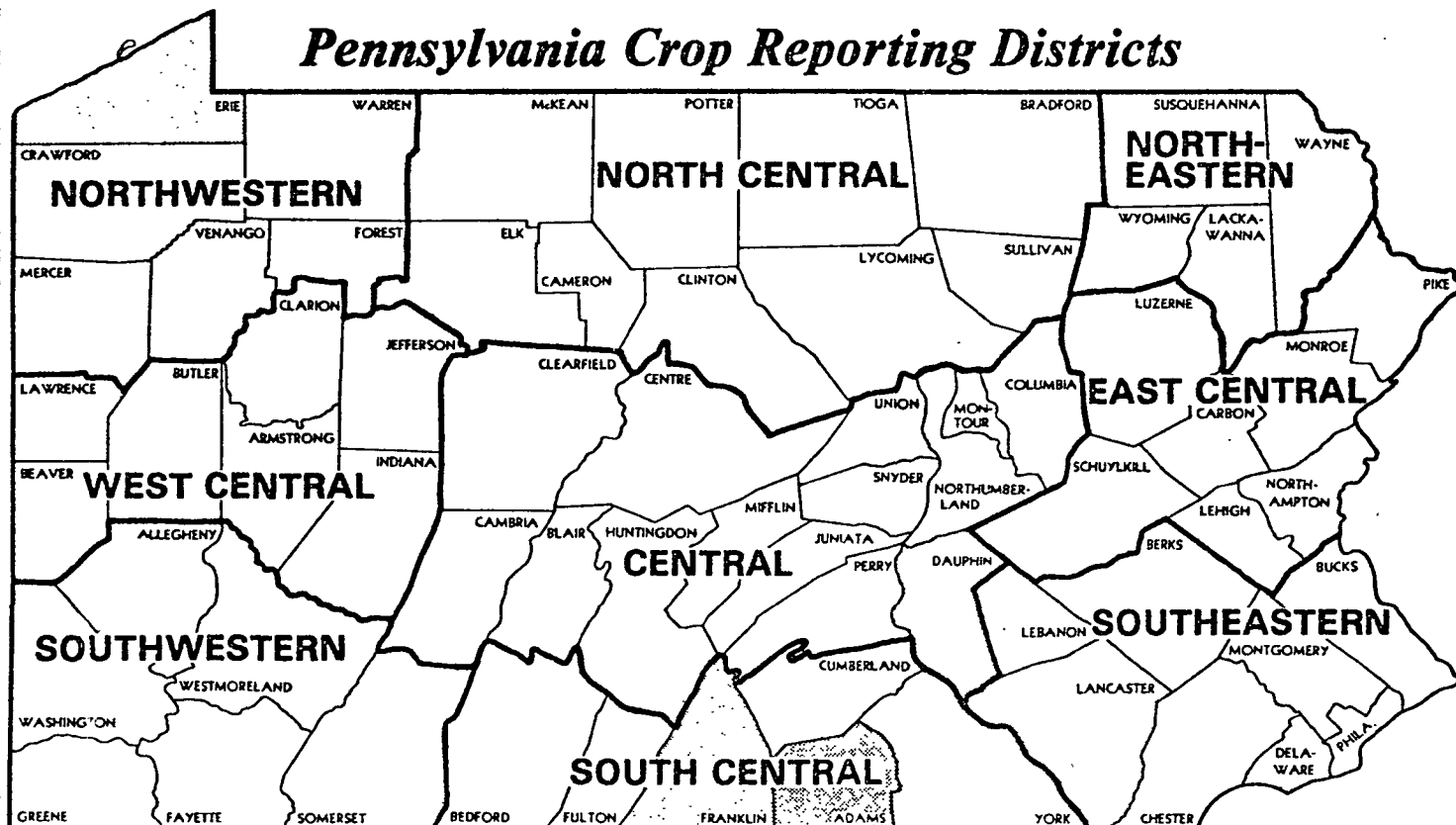
Photo Credit: Tom Piper

Fruit Production Regions in Pennsylvania



Number of Plum and Prune Trees by County - 1978

Pennsylvania Crop Reporting Districts



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PENNSYLVANIA: PLUMS & PRUNES (TOTAL): GROWERS, ACRES, TREES, PRODUCTION BY COUNTY & REGION - 1978 1/

County & Region	Growers		Acres		Total Trees		Trees Per Acre	Production 2/		Yield Per Tree 3/ (Bu.)
	Number	%	Number	%	Number	%		Bushels	%	
REGION I:										
Adams.....	40	12.5	122.4	31.7	11,659	32.9	95	15,531	31.4	1.6
Cumberland.....	3	.9	2.0	.5	146	.4	73	245	.5	1.7
Franklin.....	16	5.0	56.0	14.5	5,185	14.6	93	6,245	12.6	1.2
Perry.....	4	1.3	1.2	.3	95	.3	79	16	-	.3
York.....	32	10.1	25.3	6.6	1,973	5.5	78	3,441	7.0	2.0
TOTAL.....	95	29.8	206.9	53.6	19,058	53.7	92	25,478	51.5	1.5
REGION II:										
Berks.....	16	5.0	12.0	3.1	993	2.8	83	939	1.9	1.1
Bucks.....	7	2.1	5.5	1.4	580	1.6	105	1,191	2.4	2.2
Carbon.....	3	.9	.6	.2	58	.2	97	26	.1	.6
Chester.....	6	1.9	3.4	.9	315	.9	93	590	1.2	2.0
Dauphin & Lebanon.....	7	2.2	21.3	5.5	2,513	7.1	118	3,317	6.7	1.3
Delaware.....	4	1.3	1.1	.3	81	.2	74	55	.1	.7
Lancaster.....	16	5.0	15.4	4.0	1,293	3.7	84	1,033	2.1	.9
Lehigh.....	6	1.9	9.7	2.5	870	2.4	90	1,946	3.9	2.6
Monroe & Pike.....	2	.6	1.1	.3	106	.3	91	20	-	3.3
Montgomery.....	4	1.3	2.0	.5	185	.5	93	285	.6	1.9
Northampton.....	5	1.6	3.6	.9	318	.9	88	694	1.4	3.2
Schuylkill.....	21	6.6	4.4	1.1	386	1.1	88	774	1.6	2.3
TOTAL.....	97	30.4	80.1	20.7	7,692	21.7	96	10,870	22.0	1.7
REGION III:										
Bedford.....	4	1.3	1.7	.4	161	.5	95	48	.1	.3
Blair.....	-	-	-	-	-	-	-	-	-	-
Bradford & Tioga.....	3	.9	.9	.3	75	.2	83	298	.6	4.0
Huntingdon, Centre, and Montour.....	5	1.6	2.1	.6	175	.4	83	195	.4	1.4
Clinton.....	-	-	-	-	-	-	-	-	-	-
Columbia.....	5	1.6	11.0	2.8	922	2.6	84	1,709	3.5	1.9
Fulton.....	-	-	-	-	-	-	-	-	-	-
Juniata.....	6	1.9	8.0	2.1	739	2.1	92	2,052	4.1	2.9
Lackawanna.....	4	1.3	.5	.1	46	.1	92	21	-	.6
Luzerne.....	8	2.5	4.1	1.0	318	.9	78	199	.4	.9
Lycoming.....	9	2.8	3.4	.9	264	.8	78	454	.9	2.8
Mifflin.....	-	-	-	-	-	-	-	-	-	-
Northumberland.....	10	3.1	11.3	2.9	967	2.7	86	889	1.8	1.5
Potter.....	-	-	-	-	-	-	-	-	-	-
Snyder.....	5	1.6	10.9	2.8	904	2.6	83	3,238	6.6	3.8
Susquehanna & Wyoming.....	3	.9	.4	.1	42	.1	105	4	-	.3
Union.....	3	.9	.3	.1	32	.1	107	35	.1	1.3
Wayne.....	-	-	-	-	-	-	-	-	-	-
TOTAL.....	65	20.4	54.6	14.1	4,645	13.1	85	9,142	18.5	2.4
REGION IV:										
Allegheny.....	10	3.1	3.0	.8	269	.8	90	253	.5	1.0
Armstrong.....	3	.9	3.5	.9	335	.9	96	54	.1	.2
Beaver.....	4	1.3	1.9	.5	171	.5	90	8	-	.1
Clarion, Jefferson, Butler & Clearfield.....	4	1.3	.9	.2	73	.2	81	39	.1	-
Cambria.....	-	-	-	-	-	-	-	-	-	-
Mercer, Crawford.....	5	1.6	5.8	1.5	527	1.5	91	271	.5	.6
Elk.....	-	-	-	-	-	-	-	-	-	-
Fayette.....	-	-	-	-	-	-	-	-	-	-
Greene.....	-	-	-	-	-	-	-	-	-	-
Indiana.....	9	2.8	4.0	1.0	334	.9	84	178	.4	.5
Lawrence.....	3	.9	2.1	.6	160	.5	76	457	.9	2.9
McKean.....	-	-	-	-	-	-	-	-	-	-
Somerset.....	-	-	-	-	-	-	-	-	-	-
Venango.....	-	-	-	-	-	-	-	-	-	-
Westmoreland, and Washington.....	5	1.6	1.7	.4	145	.4	85	185	.4	2.2
TOTAL.....	43	13.5	22.9	5.9	2,014	5.7	88	1,445	2.9	.9
REGION V:										
Erie.....	19	5.9	22.0	5.7	2,070	5.8	94	2,535	5.1	.8
TOTAL.....	19	5.9	22.0	5.7	2,070	5.8	94	2,535	5.1	.8
PENNSYLVANIA.....	319	100.0	386.5	100.0	35,479	100.0	92	49,470	100.0	1.6

1/ Some counties are combined to avoid disclosure of individual operations.

2/ Production in 1977 from acreage maintained for production in 1978.

3/ Yield calculations are derived excluding the 1-3 year age category trees.

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PENNSYLVANIA: PLUMS & PRUNES (TOTAL): GROWERS, ACRES, TREES, PRODUCTION
BY SIZE OF OPERATION, 1978

Size Of Operation (Trees)	Growers		Acres		Trees		Production 1/		Yield 2/	
	Number	Percent	Number	Percent	Number	Percent	Bushels	Percent	Bushels Per Tree	Bushels Per Acre
1-99.....	241	75.5	67.2	17.4	6,359	17.9	10,285	20.8	1.6	153
100-199.....	42	13.2	70.2	18.2	5,659	16.0	8,115	16.4	1.4	116
200-499.....	26	8.2	85.6	22.2	7,695	21.7	10,220	20.6	1.3	119
500-999.....	5	1.6	43.0	11.1	3,439	9.7	8,250	16.7	2.4	192
1000 +.....	5	1.5	120.0	31.1	12,327	34.7	12,600	25.5	1.0	105
PENNSYLVANIA....	319	100.0	386.5	100.0	35,479	100.0	49,470	100.0	1.4	128

1/ Production in 1977 from acreage maintained for production in 1978. 2/ Actual yield will be slightly higher due to non bearing trees and acres included for this calculation.

PENNSYLVANIA: PLUMS & PRUNES (TOTAL): TREES BY VARIETY AND AGE GROUPS, 1978

Variety	1975 - 1977 (1-3 Years)	1972 - 1974 (4-6 Years)	1957 - 1971 (7-21 Years)	1956 & Earlier (22 Years +)	Total All Ages	Percent Of Total
European:						
Stanley.....	2,313	2,629	7,416	2,520	14,878	41.9
Fellenberg.....	42	282	1,240	260	1,824	5.1
President.....	337	461	671	40	1,509	4.3
Bluefre.....	262	82	730	8	1,082	3.0
Other European.....	278	456	5,038	532	6,304	17.8
TOTAL EUROPEAN.....	3,232	3,910	15,095	3,360	25,597	72.1
Japanese:						
Methley.....	68	127	587	93	875	2.5
Santa Rosa.....	102	256	458	41	857	2.4
Shiro (Gold).....	89	376	523	238	1,226	3.4
Other Japanese.....	408	456	2,377	400	3,641	10.3
TOTAL JAPANESE.....	667	1,215	3,945	772	6,599	18.6
TOTAL OTHER.....	555	497	1,735	496	3,283	9.3
TOTAL ALL VARIETIES....	4,454	5,622	20,775	4,628	35,479	100.0

PENNSYLVANIA: PLUMS AND PRUNES (COMMERCIAL): NUMBER OF ORCHARDS AND TREES BY SIZE GROUPS, SELECTED COUNTIES, 1978

County	100 - 199 Trees	200 - 499 Trees	500 + Trees	Total
Adams - No. Of Orchards.....	5	6	4	15
Adams - No. Of Trees.....	809	1,576	8,477	10,862
Erie - No. Of Orchards.....	4	4	-	8
Erie - No. Of Trees.....	626	1,215	-	1,841
Others - No. Of Orchards.....	33	16	6	55
Others - No. Of Trees.....	4,224	4,904	7,289	16,417
PENNSYLVANIA - No. Of Orchards	42	26	10	78
PENNSYLVANIA - No. Of Trees...	5,659	7,695	15,766	29,120

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PENNSYLVANIA: PLUMS AND PRUNES (TOTAL): NUMBER OF TREES BY COUNTIES AND AGE GROUPS, 1978 1/

County And District	Number Of Trees Maintained For Production According To Year Set Out					Percent Of Total
	1975-1977 (1-3 Yrs.)	1972-1974 (4-6 Yrs.)	1957-1971 (7-21 Yrs.)	1956 & Earlier (22 Yrs +)	Total All Ages	
Erie.....	20	192	766	1,092	2,070	5.8
Mercer and Crawford.....	70	-	432	25	527	1.5
NORTHWESTERN, TOTAL.....	90	192	1,198	1,117	2,597	7.3
Bradford and Tioga.....	20	10	25	20	75	.2
Lycoming.....	102	31	81	50	264	.8
NORTH CENTRAL, TOTAL.....	122	41	106	70	339	1.0
Lackawanna.....	8	8	14	16	46	.1
Susquehanna and Wyoming.....	30	-	12	-	42	.1
NORTHEASTERN, TOTAL.....	38	8	26	16	88	.2
Armstrong.....	-	165	5	165	335	.9
Beaver.....	-	28	143	-	171	.5
Butler, Clarion and Jefferson.....	-	12	36	-	48	.1
Indiana.....	8	233	70	23	334	.9
Lawrence.....	-	-	130	30	160	.5
WEST CENTRAL, TOTAL.....	8	438	384	218	1,048	2.9
Centre, Clearfield, Huntingdon & Montour..	36	25	79	60	200	.6
Columbia.....	40	54	628	200	922	2.6
Dauphin.....	489	334	1,509	41	2,373	6.7
Juniata.....	40	-	699	-	739	2.1
Northumberland.....	383	59	525	-	967	2.7
Perry.....	40	5	50	-	95	.3
Snyder.....	43	41	530	290	904	2.5
Union.....	5	2	25	-	32	.1
CENTRAL, TOTAL.....	1,076	520	4,045	591	6,232	17.6
Carbon.....	17	22	11	8	58	.2
Lehigh.....	115	108	291	350	864	2.4
Luzerne.....	105	75	-	138	318	.9
Monroe and Pike.....	100	-	-	6	106	.3
Northampton.....	103	45	170	-	318	.9
Schuylkill.....	44	71	261	10	386	1.1
EAST CENTRAL, TOTAL.....	484	321	733	512	2,050	5.8
Allegheny.....	8	52	177	32	269	.8
Washington and Westmoreland.....	5	70	70	-	145	.4
SOUTHWESTERN, TOTAL.....	13	122	247	32	414	1.2
Adams.....	1,860	2,002	6,469	1,328	11,659	32.9
Bedford.....	-	73	88	-	161	.4
Cumberland.....	-	-	146	-	146	.4
Franklin.....	105	615	4,229	236	5,185	14.6
York.....	225	520	1,079	149	1,973	5.6
SOUTH CENTRAL, TOTAL.....	2,190	3,210	12,011	1,713	19,124	53.9
Berks.....	174	253	509	57	993	2.8
Bucks.....	30	31	478	41	580	1.6
Chester.....	25	20	270	-	315	.9
Delaware.....	-	38	15	28	81	.2
Lancaster and Lebanon.....	169	328	753	183	1,433	4.1
Montgomery.....	35	100	-	50	185	.5
SOUTHEASTERN, TOTAL.....	433	770	2,025	359	3,587	10.1
PENNSYLVANIA.....	4,454	5,622	20,775	4,628	35,479	100.0
PERCENT OF TOTAL TREES.....	12.6	15.8	59.6	13.0	100.0	100.0

1/ Some counties are combined to avoid disclosure of individual operations.

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NECTARINES

Number Of Orchards And Trees: Consumer acceptance of nectarines has increased substantially during recent years. The number of commercial nectarine orchards (100+ Trees) increased from 44 in 1972 to 71 in 1978, up 61 percent. The number of trees in commercial nectarine orchards climbed from 19,024 in 1972 to 44,877 in 1978.

Acreage In Orchards: Commercial nectarine acreage more than doubled from 222 acres in 1972 to 479.6 in 1978. During the same period trees per acre increased from 86 to 94.

Location Of Trees: Fruit Region I accounted for 58 percent of the total 47,938 nectarine trees. The leading three counties (Franklin, York and Adams) accounted for 58 percent of the total trees.

Age Of Trees: Of the total 47,938 nectarine trees, 20.7 percent were 1-3 years old, 41.6 percent 4-6 years old, 37.3 percent 7-21 years old and .4 percent 22 years or older.

Varieties: Leading varieties as a percent of total trees are: Redgold — 24, Sunglo — 17, Nectared — 11, and Favertop — 8.

PENNSYLVANIA: NECTARINES - COMPARISON OF COMMERCIAL & NON COMMERCIAL GROWER AND TREE NUMBERS
1967 - 1972 - 1978

Trees	Number Of Growers			Number Of Trees		
	1967	1972	1978	1967	1972	1978
1-99 1/.....	106	86	153	2,892	2,328	3,061
100 +	35	44	71	24,039	19,024	44,877
Total 1/.....	141	130	224	26,931	21,352	47,938

1/ Include trees in orchards classified as commercial (100 + Trees) for any fruit.

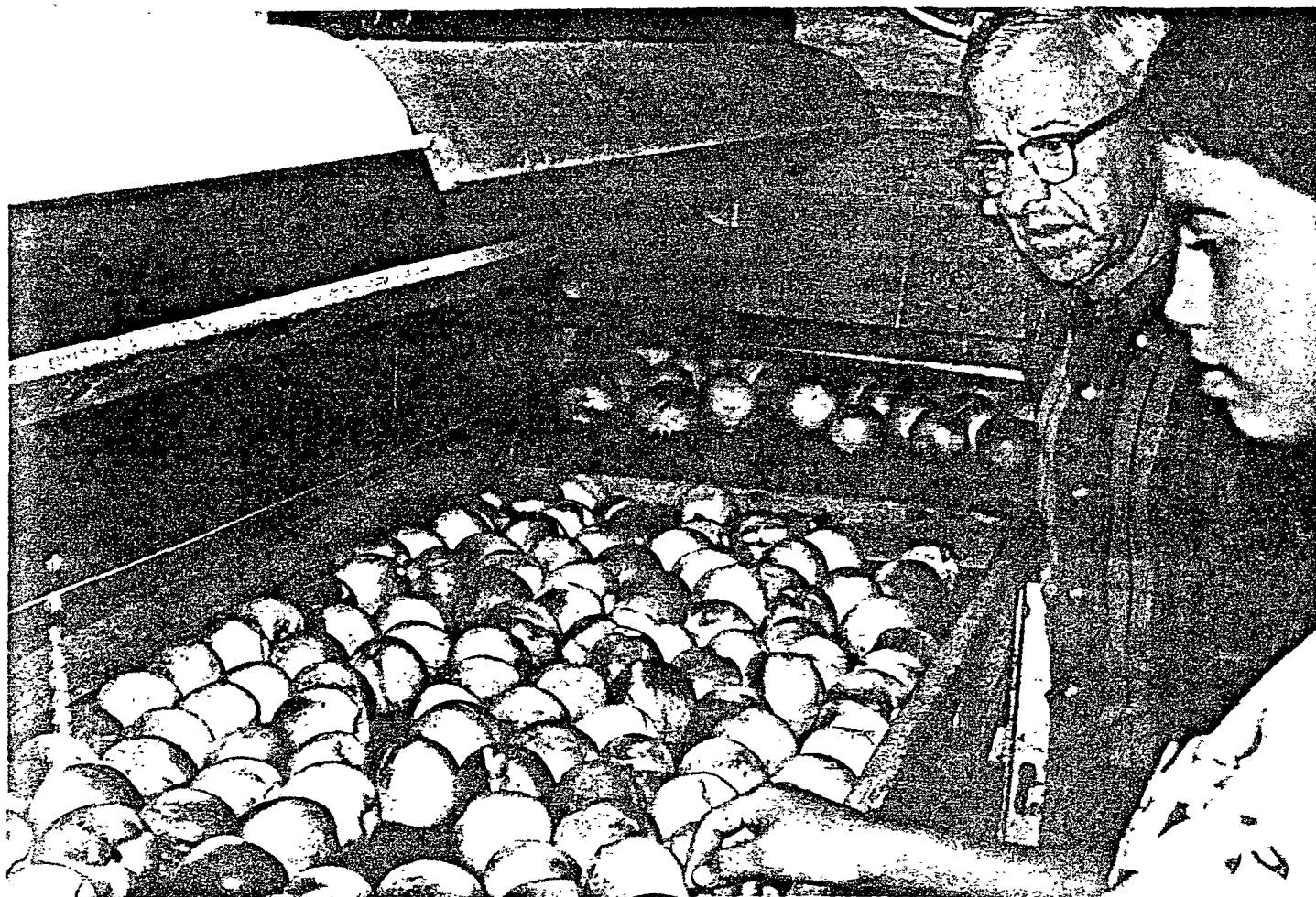
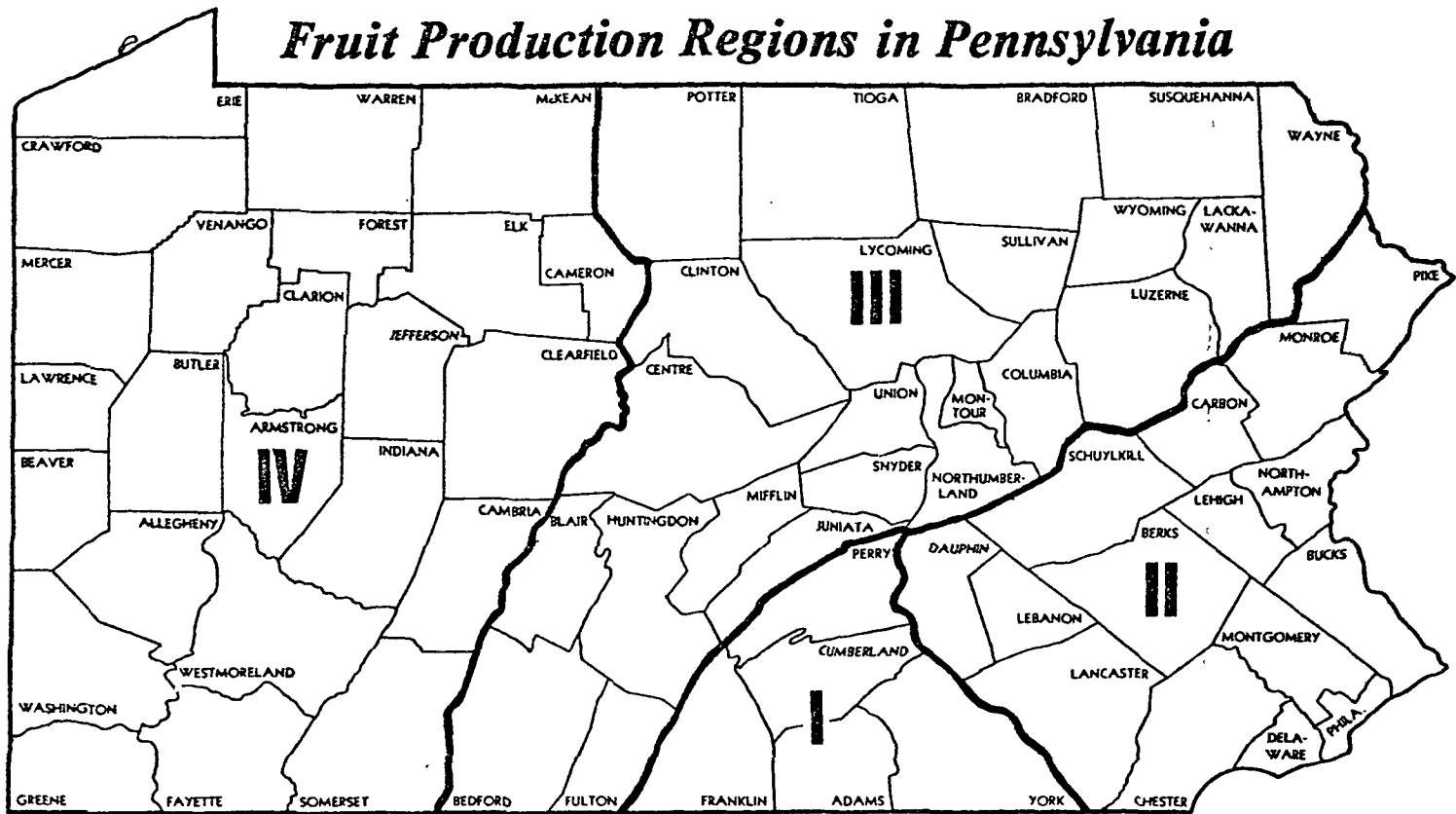


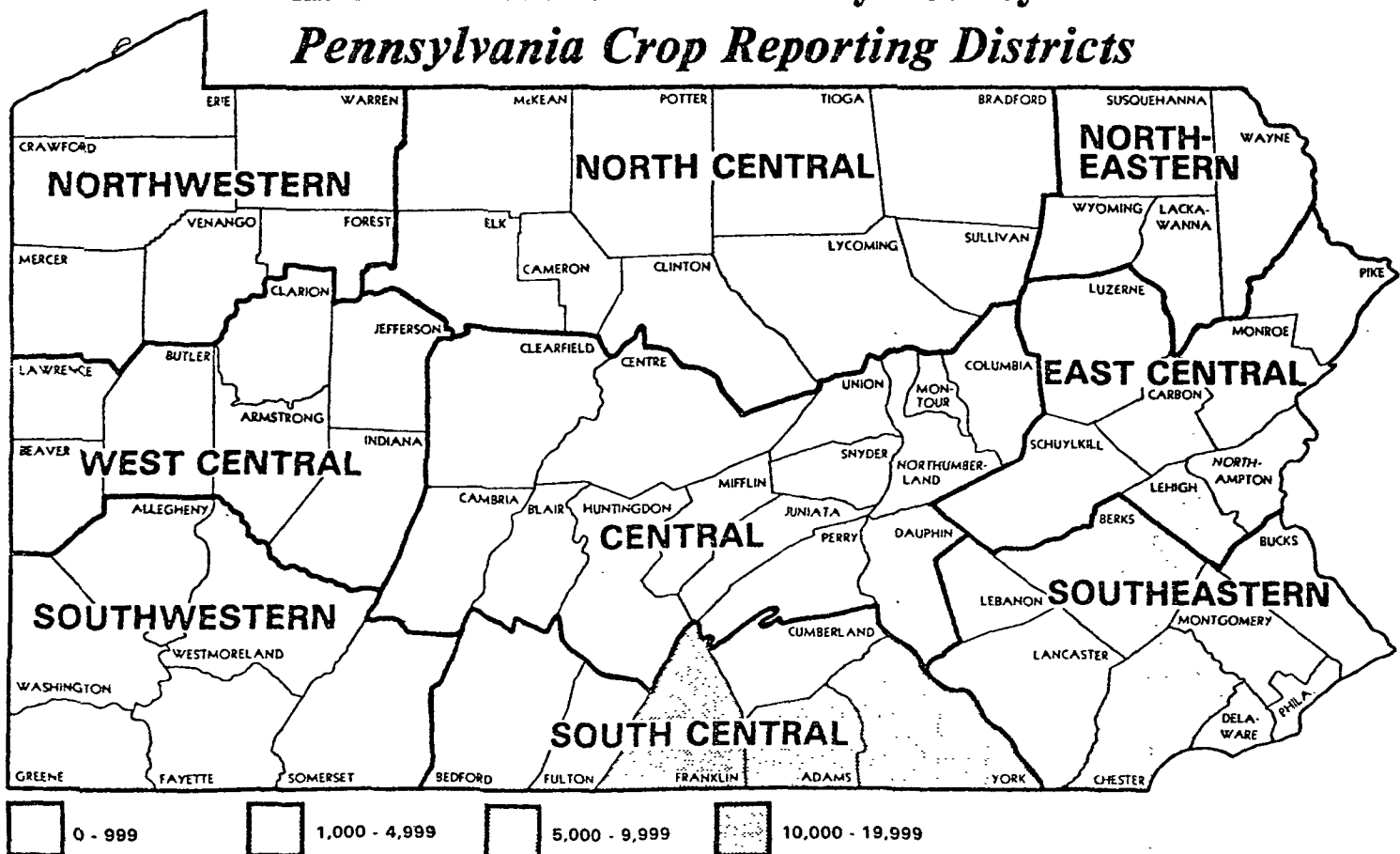
Photo Credit: Tom Piper

Fruit Production Regions in Pennsylvania



Number of Nectarine Trees by County - 1978

Pennsylvania Crop Reporting Districts



PENNSYLVANIA: NECTARINES (TOTAL): GROWERS, TREES, ACRES, PRODUCTION, BY COUNTY & REGION, 1978 1/

County & Region	Growers		Acres		Total Trees		Trees Per Acre	Production 2/		Yield Per Tree 3/ (Bushels)
	Number	Percent	Number	Percent	Number	Percent		Bushels	Percent	
REGION I:										
Adams.....	23	10.3	75.3	14.3	6,592	13.7	88	6,979	8.6	1.4
Cumberland & Perry.....	7	3.1	1.6	.3	107	.2	67	62	.1	.9
Franklin.....	16	7.1	172.8	32.8	13,206	27.6	76	42,032	51.7	3.6
York.....	26	11.6	69.7	13.2	7,863	16.4	113	10,776	13.3	1.4
TOTAL.....	72	32.1	319.4	60.6	27,768	57.9	87	59,849	73.7	2.4
REGION II:										
Berks.....	15	6.8	43.4	8.2	4,184	8.7	96	3,385	4.2	1.3
Bucks.....	5	2.2	2.2	.4	185	.4	84	300	.4	1.6
Carbon & Schuylkill.....	12	5.4	5.7	1.0	308	.6	54	465	.6	1.6
Chester.....	5	2.2	8.7	1.7	1,021	2.1	117	255	.3	2.5
Dauphin & Lebanon.....	6	2.7	19.0	3.6	1,740	3.6	92	1,984	2.4	1.6
Delaware.....	3	1.3	.8	.2	57	.1	71	75	.1	1.6
Lancaster.....	9	4.0	3.6	.7	277	.6	77	196	.2	1.1
Lehigh.....	9	4.0	19.4	3.7	1,943	4.1	100	6,197	7.6	3.7
Monroe.....	-	-	-	-	-	-	-	-	-	-
Montgomery.....	4	1.8	5.2	1.0	700	1.5	135	344	.4	.9
Northampton.....	5	2.2	3.4	.6	421	.9	124	162	.2	.6
Pike.....	-	-	-	-	-	-	-	-	-	-
TOTAL.....	73	32.6	111.4	21.1	10,836	22.6	97	13,363	16.4	1.9
REGION III:										
Bedford.....	3	1.3	3.2	.6	413	.9	129	86	.1	.2
Blair & Huntingdon.....	3	1.3	3.8	.7	377	.8	99	80	.1	.2
Bradford.....	-	-	-	-	-	-	-	-	-	-
Centre.....	-	-	-	-	-	-	-	-	-	-
Clinton.....	-	-	-	-	-	-	-	-	-	-
Columbia.....	5	2.2	4.5	.9	479	1.0	106	1,063	1.3	3.8
Fulton.....	-	-	-	-	-	-	-	-	-	-
Juniata.....	5	2.2	13.6	2.6	1,215	2.5	89	1,100	1.4	1.6
Lackawanna.....	-	-	-	-	-	-	-	-	-	-
Luzerne & Susquehanna...	6	2.7	1.0	.2	86	.2	86	8	-	.2
Lycoming.....	6	2.7	26.0	4.9	2,609	5.4	100	4,011	5.0	1.6
Mifflin.....	-	-	-	-	-	-	-	-	-	-
Montour & Northumberland	8	3.6	3.8	.7	274	.6	72	193	.2	1.2
Potter.....	-	-	-	-	-	-	-	-	-	-
Snyder.....	7	3.2	11.7	2.2	1,482	3.1	127	140	.2	1.0
Tioga.....	-	-	-	-	-	-	-	-	-	-
Union.....	3	1.3	.9	.2	53	.1	59	25	-	.5
Wayne.....	-	-	-	-	-	-	-	-	-	-
Wyoming.....	-	-	-	-	-	-	-	-	-	-
TOTAL.....	46	20.5	68.5	13.0	6,988	14.6	102	6,706	8.3	1.4
REGION IV:										
Allegheny.....	5	2.2	4.8	.9	437	.9	91	375	.5	.9
Beaver.....	6	2.8	4.2	.8	373	.7	89	120	.1	.3
Butler.....	-	-	-	-	-	-	-	-	-	-
Cambria.....	-	-	-	-	-	-	-	-	-	-
Clarion.....	-	-	-	-	-	-	-	-	-	-
Clearfield.....	-	-	-	-	-	-	-	-	-	-
Crawford & Mercer.....	3	1.3	.5	.1	33	.1	66	48	.1	1.5
Elk.....	-	-	-	-	-	-	-	-	-	-
Fayette.....	-	-	-	-	-	-	-	-	-	-
Greene.....	-	-	-	-	-	-	-	-	-	-
Indiana & Jefferson.....	4	1.8	9.3	1.8	660	1.4	71	3	-	-
Lawrence.....	4	1.8	2.2	.4	225	.5	102	306	.4	2.2
McKean.....	-	-	-	-	-	-	-	-	-	-
Somerset & Washington...	5	2.2	1.4	.3	121	.3	86	190	.2	1.6
Venango.....	-	-	-	-	-	-	-	-	-	-
Westmoreland.....	-	-	-	-	-	-	-	-	-	-
TOTAL.....	27	12.1	22.4	4.3	1,849	3.9	83	1,042	1.3	.8
REGION V:										
Erie.....	6	2.7	5.4	1.0	497	1.0	92	219	.3	.6
TOTAL.....	6	2.7	5.4	1.0	497	1.0	92	219	.3	.6
PENNSYLVANIA.....	224	100.0	527.1	100.0	47,938	100.0	91	81,179	100.0	2.1

- 1/ Some counties are combined to avoid disclosure of individual operations.
 2/ Production in 1977 from acreage maintained for production in 1978.
 3/ Yield calculations are derived excluding the 1-3 year age category trees.

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PENNSYLVANIA: NECTARINES - TOTAL: GROWERS, TREES, ACRES AND PRODUCTION BY
SIZE OF OPERATION - 1978

Size Of Operation (Trees)	Growers		Trees		Acres		Production ^{1/}		Yield ^{2/}	
	Number	Percent	Number	Percent	Number	Percent	Bushels	Percent	Bushels Per Tree	Bushels Per Acre
1-99.....	153	68.3	3,061	6.4	47.5	9.0	3,868	4.8	1.3	81.4
100-199.....	29	13.0	4,747	9.9	49.9	9.5	4,887	6.0	1.0	97.9
200-499.....	19	8.5	6,035	12.6	63.0	12.0	9,709	12.0	1.6	154.1
500-999.....	13	5.8	8,453	17.6	92.7	17.6	8,210	10.1	1.0	88.6
1000-2499.....	5	2.2	5,542	11.6	54.0	10.2	4,005	4.9	.7	74.2
2500+.....	5	2.2	20,100	41.9	220.0	41.7	50,500	62.2	2.5	229.5
PENNSYLVANIA.....	224	100.0	47,938	100.0	527.1	100.0	81,179	100.0	1.7	154.0

^{1/} Production in 1977 from acreage maintained for production in 1978.

^{2/} Actual yield will be slightly higher due to nonbearing trees and acres included for this calculation.

PENNSYLVANIA: NECTARINES - TOTAL: TREES BY VARIETY AND AGE GROUPS - 1978

Variety	1975-1977 (1-3 Years)	1972-1974 (4-6 Years)	1957-1971 (7-21 Years)	1956 & Earlier (22 Years +)	Total All Ages	Percent Of Total
Sun Glo.....	1,306	3,001	3,663	-	7,970	16.6
Red Gold.....	3,042	6,586	2,025	-	11,653	24.3
Favertop.....	690	2,602	293	-	3,585	7.5
Francesco.....	11	540	50	-	601	1.2
Reol glo.....	389	680	563	-	1,632	3.4
Starks Delicious.....	571	455	560	20	1,606	3.4
Sun Grande.....	140	305	1,881	-	2,326	4.8
Fantasia.....	134	550	79	-	763	1.6
Nectared.....	1,205	1,089	2,765	47	5,106	10.7
Other.....	2,421	4,166	5,989	120	12,696	26.5
TOTAL ALL VARIETIES.....	9,909	19,974	17,868	187	47,938	100.0

PENNSYLVANIA: NECTARINES - COMMERCIAL: NUMBER OF ORCHARDS AND TREES BY
SIZE GROUPS, SELECTED COUNTIES - 1978

County	100-199 Trees	200-499 Trees	500 + Trees	Total
Adams - No. Of Orchards.....	4	3	4	11
Adams - No. Of Trees.....	479	640	4,745	5,864
Franklin - No. Of Orchards....	-	3	5	8
Franklin - No. Of Trees.....	-	1,000	12,002	13,002
Others - No. Of Orchards.....	25	13	14	52
Others - No. Of Trees.....	4,255	4,395	17,348	26,011
PENNSYLVANIA - No. Of Orchards	29	19	23	71
PENNSYLVANIA - No. Of Trees...	4,747	6,035	34,095	44,877

PENNSYLVANIA: NECTARINES (TOTAL): NUMBER OF TREES BY COUNTIES AND AGE GROUPS, 1978 1/

County & Region	Number Of Trees Maintained For Production According To Year Set Out					Percent Of Total
	1975-1977 (1-3 Yrs.)	1972-1974 (4-6 Yrs.)	1957-1971 (7-21 Yrs.)	1955 & Earlier (22 Yrs +)	Total All Ages	
REGION I:						
Adams.....	1,533	1,905	3,119	35	6,592	13.8
Cumberland & Perry.....	40	15	44	8	107	.2
Franklin.....	1,411	6,194	5,560	41	13,206	27.5
York.....	59	6,697	1,063	44	7,863	16.4
TOTAL.....	3,043	14,811	9,786	128	27,768	57.9
REGION II:						
Berks.....	1,614	1,510	1,060	0	4,184	8.7
Bucks.....	0	25	160	0	185	.4
Carbon & Schuylkill.....	24	142	142	0	308	.6
Chester.....	917	30	74	0	1,021	2.1
Dauphin & Lebanon.....	517	482	741	0	1,740	3.6
Delaware.....	10	12	35	0	57	.1
Lancaster.....	102	80	75	20	277	.6
Lehigh.....	262	510	1,170	1	1,943	4.1
Monroe.....	0	0	0	0	0	-
Montgomery.....	300	345	40	15	700	1.5
Northampton.....	155	210	51	5	421	.9
Pike.....	0	0	0	0	0	-
TOTAL.....	3,901	3,346	3,548	41	10,836	22.6
REGION III:						
Bedford.....	0	290	117	6	413	.9
Blair & Huntingdon.....	40	337	0	0	377	.8
Bradford.....	0	0	0	0	0	-
Centre.....	0	0	0	0	0	-
Clinton.....	0	0	0	0	0	-
Columbia.....	200	235	34	10	479	1.0
Fulton.....	0	0	0	0	0	-
Juniata.....	515	15	685	0	1,215	2.5
Lackawanna.....	0	0	0	0	0	-
Luzerne & Susquehanna.....	52	20	14	0	86	.2
Lycoming.....	73	36	2,500	0	2,609	5.4
Mifflin.....	0	0	0	0	0	-
Montour & Northumberland.....	116	53	105	0	274	.6
Potter.....	0	0	0	0	0	-
Snyder.....	1,347	32	102	1	1,482	3.1
Tioga.....	0	0	0	0	0	-
Union.....	2	51	0	0	53	.1
Wayne.....	0	0	0	0	0	-
Wyoming.....	0	0	0	0	0	-
TOTAL.....	2,345	1,069	3,557	17	6,988	14.6
REGION IV:						
Allegheny.....	25	77	335	0	437	.9
Beaver.....	0	176	197	0	373	.8
Butler.....	0	0	0	0	0	-
Cambria.....	0	0	0	0	0	-
Clarion.....	0	0	0	0	0	-
Clearfield.....	0	0	0	0	0	-
Crawford & Mercer.....	0	0	33	0	33	.1
Elk.....	0	0	0	0	0	-
Fayette.....	0	0	0	0	0	-
Greene.....	0	0	0	0	0	-
Indiana & Jefferson.....	360	250	50	0	660	1.3
Lawrence.....	85	15	125	0	225	.5
McKean.....	0	0	0	0	0	-
Somerset & Washington.....	0	60	60	1	121	.3
Venango.....	0	0	0	0	0	-
Westmoreland.....	0	0	0	0	0	-
TOTAL.....	470	578	800	1	1,849	3.9
REGION V:						
Erie.....	150	170	177	0	497	1.0
TOTAL.....	150	170	177	0	497	1.0
PENNSYLVANIA.....	9,909	19,974	17,868	187	47,938	100.0
PERCENT OF TOTAL.....	20.7	41.6	37.3	.4	100.0	-

1/ Some counties are combined to avoid disclosure of individual operations.

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PENNSYLVANIA: ALL FRUIT (TOTAL): ACRES BY KIND AND COUNTY - 1978

County	Apples	Peaches	Pears	Tart Cherries	Sweet Cherries	Plums & Prunes	Nectarines	Grapes	Ranking All Fruit Acreage
Adams.....	14,416.9	2,956.5	673.0	1,375.4	48.8	122.4	75.3	20.3	1
Allegheny.....	676.2	30.7	6.0	.5	.3	3.0	4.8	19.5	14
Armstrong.....	102.2	26.1	1/	1.3	1/	3.5	-	1/	32
Beaver.....	96.3	22.4	3.0	.2	.3	1.9	4.2	1/	33
Becford.....	696.0	1/	16.2	3.0	13.1	1.7	3.2	-	11
Berks.....	1,215.2	531.4	36.7	19.5	4.6	12.0	43.4	12.3	6
Blair.....	639.0	34.0	19.0	1/	1/	-	1/	76.1	10
Bradford.....	179.1	1/	7.9	1/	1/	1/	-	1/	27
Bucks.....	231.2	114.5	13.0	5.6	1.6	5.5	2.2	36.0	18
Butler.....	29.4	2.8	1/	-	-	1/	-	-	52
Cambria.....	34.0	-	1/	-	1/	-	-	-	50
Cameron.....	-	-	-	-	-	-	-	-	-
Carbon.....	1/	1/	1/	1/	1/	.6	1/	1/	49
Centre.....	187.0	1/	1/	1/	-	1/	-	1/	26
Chester.....	371.7	125.3	14.0	4.8	22.9	3.4	8.7	1/	15
Clarion.....	1/	1/	1/	1/	1/	1/	-	1/	51
Clearfield.....	68.1	-	1/	1/	-	1/	-	-	40
Clinton.....	1/	1/	-	-	-	-	-	-	53
Columbia.....	130.8	24.7	22.0	2.4	3.3	11.0	4.5	-	23
Crawford.....	44.5	1/	2.5	1/	1/	1/	1/	1/	42
Cumberland.....	843.5	156.0	19.0	17.0	2.8	2.0	1/	20.4	8
Dauphin.....	207.7	106.0	30.9	8.3	18.6	1/	1/	12.6	17
Delaware.....	72.1	34.7	5.0	.4	1/	1.1	.8	1/	35
Elk.....	1/	1/	-	-	-	-	-	-	58
Erie.....	717.9	151.7	61.0	290.8	145.8	22.0	5.4	13,668.1	2
Fayette.....	1/	1/	1/	.5	1/	-	-	-	61
Forest.....	-	-	-	-	-	-	-	-	-
Franklin.....	4,265.3	1,874.5	49.0	100.8	31.2	56.0	172.8	-	3
Fulton.....	1/	1/	-	-	1/	-	-	-	47
Greene.....	1/	-	-	-	-	-	-	-	59
Huntingdon.....	1/	1/	1/	1/	1/	1/	1/	-	45
Indiana.....	200.2	15.2	5.0	1.7	.7	4.0	1/	12.9	25
Jefferson.....	1/	1/	1/	1/	-	-	1/	-	56
Juniata.....	388.7	272.5	21.1	4.5	12.5	8.0	13.6	1/	12
Lackawanna.....	124.1	3.2	2.0	-	1/	.5	-	1/	34
Lancaster.....	354.0	387.5	43.3	35.8	155.5	15.4	3.6	111.6	7
Lawrence.....	83.6	13.1	1.5	1/	1/	2.1	2.2	-	37
Lebanon.....	76.5	58.0	8.0	1/	-	1/	1/	1/	29
Lehigh.....	1,555.2	524.4	93.3	.5	3.0	9.7	19.4	11.5	5
Luzerne.....	123.2	33.0	14.0	1/	1/	4.1	1/	9.3	24
Lycoming.....	175.9	53.0	24.2	3.7	9.1	3.4	26.0	1/	21
McKean.....	1/	-	-	-	-	-	-	-	60
Mercer.....	64.7	46.4	1/	1/	1/	1/	1/	43.0	30
Mifflin.....	80.3	1/	5.0	1/	1/	-	-	1/	36
Monroe.....	1/	1/	1/	-	-	1/	-	-	57
Montgomery.....	197.2	24.7	6.1	-	1/	2.0	5.2	30.4	20
Montour.....	1/	1/	1.2	1/	-	1/	-	1/	48
Northampton.....	483.0	215.0	13.0	2.2	18.1	3.6	3.4	1/	13
Northumberland.....	1/	1/	13.0	4.0	3.2	11.3	3.8	30.0	19
Perry.....	103.5	25.5	6.0	5.8	3.8	1.2	1/	-	31
Philadelphia.....	-	-	-	-	-	-	-	-	-
Pike.....	1/	-	1/	-	-	1/	-	-	55
Potter.....	1/	-	1/	-	-	-	-	-	62
Schuylkill.....	312.5	77.0	101.7	1.6	1.1	4.4	1/	1/	16
Snyder.....	634.3	232.2	15.8	13.3	4.9	10.9	11.7	-	9
Somerset.....	1/	-	1/	1/	1/	-	1/	-	38
Sullivan.....	-	-	-	-	-	-	-	-	-
Susquehanna.....	1/	1/	1/	1/	1/	1/	1/	1/	46
Tioga.....	50.6	-	1/	-	1/	1/	-	-	44
Union.....	30.4	24.5	3.2	1/	.5	.3	.9	-	43
Venango.....	81.0	1/	1/	-	-	-	-	-	39
Warren.....	-	-	-	-	-	-	-	-	-
Washington.....	233.9	27.7	1.0	.2	2.5	1/	1/	1/	22
Wayne.....	1/	-	-	-	-	-	-	-	54
Westmoreland.....	54.7	1/	1/	1/	-	1/	-	1/	41
Wyoming.....	154.0	1/	1/	-	-	1/	-	-	28
York.....	1,358.2	1,110.4	96.0	51.1	18.0	25.3	69.7	49.7	4
Acreage Not Listed Above.....	638.9	246.2	34.2	45.6	19.5	34.2	42.3	107.6	-
PENNSYLVANIA.....	32,856.4	9,767.7	1,499.3	2,000.5	545.7	386.5	527.1	14,271.3	61,871.0

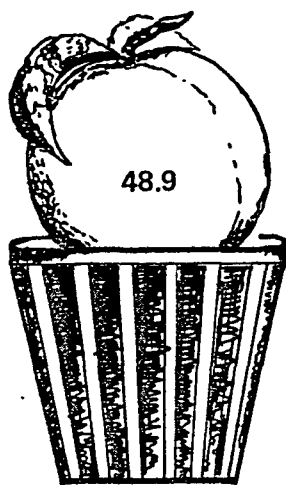
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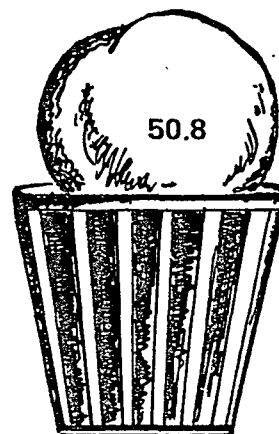
**PENNSYLVANIA: PEACHES, NECTARINES, PEARS, PLUMS AND PRUNES
AVERAGE WEIGHT PER BUSHEL OF PRODUCTION — 1977**

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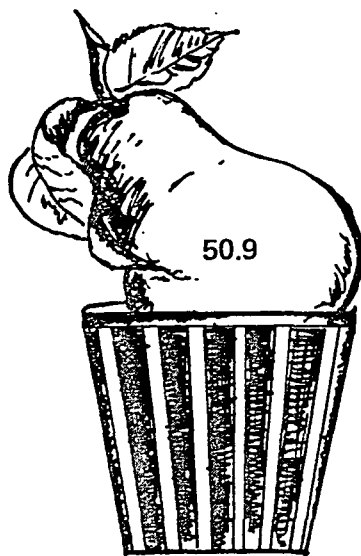
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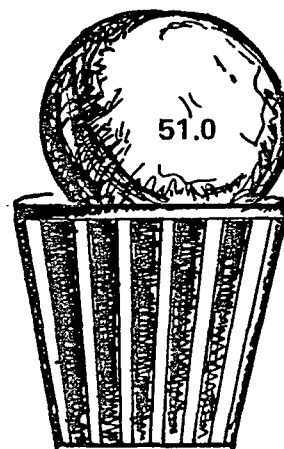
PEACHES



NECTARINES



PEARS



PLUMS & PRUNES

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OF POOR QUALITY

PENNSYLVANIA: APPLES, PEACHES, VARIETIES REPORTED - 1978 1/

APPLE VARIETIES

1. Arkansas (Black Twig)
2. Astragin
3. August Early
4. Baldwin
5. Barry
6. Baxter
7. Beacon (Fenton)
8. Belle Flower
9. Ben Davis (Gano)
10. Bentley
11. Bisbee
12. Blushing Golden
13. Bright McIntosh
14. Burgandy
15. Champion
16. Chesepeke
17. Connell Red (Fireside)
18. Cortland
19. Crabapple
20. Crandell
21. Criterion
22. Dalgo Crabapple
23. Double Red
24. Dutchess
25. Earliblaze
26. Early Delicious
27. Early Glo
28. Early Harvest
29. Early McIntosh
30. Early Red
31. Early Red June
32. Empire
33. Fallwater
34. Franklin
35. Gala Beauty (Rome Red)
36. Gold Spur
37. Golden Delicious
38. Granny Smith
39. Gravenstein
40. Green Stark
41. N.W. Greening
42. R.I. Greening
43. Harvest Sweet
44. Holdrons
45. Holliday
46. Idared
47. Jersey Mac
48. Jersey Red
49. John Blemish
50. John Grimes
51. Jonagold
52. Jonagrime
53. Jonared
54. Jonathan
55. Jonae
56. Jonae Mac
57. July Red
58. Jumbo (NY16884)
59. Kendell Mac
60. King
61. King Luscious
62. Ladyapple
63. Lakeland
64. Lodi (King Lotus)
65. Lowery
66. Macoun
67. Madien Blush
68. McIntosh
69. Melba
70. Melrose
71. Milton
72. Minjon
73. Mollys Delicious
74. Monroe
75. Muts
76. Nero Red
77. Niagara
78. Nittany
79. Northern Spy
80. Ohio Nonperill
81. Opalescent
82. Ottawa (T411 Quinte)
83. Ozark Gold
84. Paradise (Sweet)
85. Paula Red
86. Pippin
87. Prairie Spy
88. Pricilla
89. Prima
90. Prime Gold
91. Puratin
92. Rambo
93. Raritan
94. Red Astrachan
95. Red Bird
96. Red Bliss
97. Red Delicious
98. Red Doctor
99. Red Gold
100. Red Ruby
101. Red Spy
102. Red Warrior
103. Rome Red
104. Rome Regular
105. Russits
106. Seek-No-Further
107. Sharon Red
108. Sheepnose
109. Smokehouse
110. Snowapple
111. Spartan
112. Spigold
113. Starks Splendor
114. Starr
115. Stayman
116. Strawberry
117. Sun Gold
118. Sutton Beauty
119. Sweet Bough
120. Thompsons
121. Tinsmith
122. Tolman Sweet
123. Turley
124. Turleywine
125. Twenty Ounce
126. Tydemans Red
127. Viking
128. Wagner
129. Wayne
130. Wealthy
131. Wellington
132. Williamsearly Red
133. Winchester
134. Winesap
135. Winter Banana
136. Wolf River
137. Yellow Horse
138. Yellow Transparent
139. York Imperial
140. York Red

PEACH VARIETIES

1. Adams Late
2. After Glo
3. Ambergem
4. Autumglo
5. Baby Gold
6. Beekman
7. Belle Of Georgia
8. Biscoe
9. Blake
10. Brakett
11. Canadian Harmony
12. Canadian Queen
13. Candor
14. Cardinal
15. Carman
16. Champion
17. Collins (N.J. 200)
18. Colora
19. Comanche
20. Coronet
21. Crawford
22. Cresthaven
23. Cumberland
24. Dawn
25. Dixe Queen
26. Dixired
27. Eariglo
28. Earired
29. Early Blake
30. Early East
31. Early Red Fre
32. Early Red Haven
33. Early Red Rose
34. Early White Giant
35. Eclipse
36. Edens
37. Elberta
38. Emory
39. Envoy
40. Fairhaven
41. Fertile Hale
42. Frost King
43. Garnet Beauty
44. Gemmers Late
45. Glohaven
46. Golden East (N.J. 87)
47. Golden Gem
48. Golden Jubilee
49. Golden Ray
50. Halberta
51. Halehaven
52. Hale Harrison Brilliant
53. Harbelle
54. Harbinger
55. Harbrite
56. Harmony
57. Harken
58. Harrow
59. Harvest Queen
60. Honey Dew
61. Iron Mountain
62. J.H. Hale
63. Jefferson
64. Jersey Belle
65. Jerseyland
66. Jerseyqueen
67. July Elberta
68. Kalhaven
69. Keystone
70. Late Glo
71. Late Rose
72. Late Sun Haven
(Slaybaugh Special)
73. Late Yellow
74. Lizzie
75. Loring
76. Madison
77. Marglow
78. Marhigh
79. Marqueen
80. Marsun
81. Maryland
82. Monroe
83. Moore Early Red
84. Newday (N.J. 79)
85. N.J. 178
86. N.J. 193
87. N.J. 233
88. Norman
89. Peachcot
90. Poppy
91. Ranger
92. Rare Ripe
93. Raritan Rose
94. Red Cap
95. Red Crest
96. Red Elberta
97. Red Glo
98. Red Globe
99. Red Hale
100. Red Haven
101. Red Kist
102. Redqueen (N.J. 212)
103. Red Rose
104. Redskin
105. Redwin
106. Reliance
107. Richaven
108. Rio Oso Gem
109. Rodchester
110. Royal Vex
111. Sentenial
112. Shippers Late Red
113. Slappy
114. Somerset
115. South Haven
116. Southland
117. Springold
118. Starkling Delicious
119. Starks Earliglo
120. Starks Late Glo
121. Sullivan Elberta
122. Summercrest
123. Summerqueen
124. Summer Rose
125. Sunbright
126. Suncrest
127. Sunhaven
128. Sunhigh
129. Sunqueen
130. Sunrise
131. Sunshine
132. Sweet Sue
133. Trio Gem
134. Valiant
135. Vedette
136. Velvet
137. Veteran
138. Washington
139. White Giant
140. White Hale
141. White Rose
142. Wild Rose
143. Winter Gem
144. Yakima Hale
145. Yellow Cross
146. Yellow Elberta

1/ Some duplication and "Farmer Brands" may be contained in these lists.

PEARS

- | | |
|--------------------|--------------------------|
| 1. Aurora | 15. Lincoln |
| 2. Bartlett | 16. Magness |
| 3. Bosc | 17. Marlatte |
| 4. Clapps Favorite | 18. Maxine |
| 5. D'Anjou | 19. Moonglo |
| 6. Devoe | 20. New York 10274 |
| 7. Dutchess | 21. Red Bartlett |
| 8. Dymond | 22. Reinier Red |
| 9. Ewart | 23. Russit |
| 10. Fame | 24. Sekel |
| 11. Flemish Beauty | 25. Sheldon |
| 12. Gorham | 26. Starkrimson |
| 13. Honey | 27. Starks Delicious |
| 14. Lawrence | 28. Sugar Pear Miniature |

29. Tyson

CHERRIES - SWEET

- | | |
|---------------------|------------------------|
| 1. Big Jo | 18. Queen-Anne |
| 2. Bing | 19. Rainier |
| 3. Black Giant | 20. Red Che |
| 4. Black Oxheart | 21. Sam |
| 5. Black Republican | 22. Schmidts Biggereau |
| 6. Black Tartarian | 23. Seneca Star |
| 7. Chinook | 24. Starks Gold |
| 8. Emperor Francis | 25. Sweet Shower |
| 9. Golden Sharon | 26. Ulster |
| 10. Hardy Giant | 27. Van |
| 11. Helderlingen | 28. Venus |
| 12. Hershey Special | 29. Victor |
| 13. Lambert | 30. Vista |
| 14. Napoleon | 31. White Oxheart |
| 15. Olsters | 32. Wickson |
| 16. Onterio | 33. Yellow Oxheart |
| 17. PA White | 34. Yellow Spanish |

CHERRIES - TART

- | | |
|-------------------|--------------------|
| 1. Early Richmond | 2. English Morella |
| 3. Montmorency | |

PLUMS - PRUNES

- | <u>European</u> | <u>Japanese</u> | <u>Other</u> |
|-------------------|---------------------|----------------------|
| 1. Bluefre | 1. Burbank | 1. Delicious |
| 2. Bradshaw | 2. Burmosa | 2. Duryea |
| 3. Damson | 3. Mamouth Cardinal | 3. Hershey Blue |
| 4. Duarte | 4. Eldorado | 4. Idaho |
| 5. Fellemberg | 5. Elephant Heart | 5. Mac Verna |
| 6. German Blue | 6. Formosa | 6. Maxiview |
| 7. Grand Prize | 7. Great Yellow | 7. Medley |
| 8. Green Gage | 8. Methley | 8. Oxheart |
| 9. Italian | 9. Red Heart | 9. Rare Ripe |
| 10. Lombard | 10. Sant Rosa | 10. Red Ace |
| 11. N.Y. State | 11. Satsuma | 11. Sharon |
| 12. Ozark Premier | 12. Shiro (Gold) | 12. Starks Delicious |
| 13. President | 13. Wicson | 13. Yellow Gage |
| 14. Stanley | | 14. Yellow Gold |
| 15. Yellow Egg | | |

American

- | | | |
|-----------------|-------------|-----------------|
| 1. Ace Mariposa | 2. Superior | 3. North Dakota |
|-----------------|-------------|-----------------|

NECTARINES

- | | |
|--------------------|----------------------|
| 1. Anderson | 28. Nectalate |
| 2. Apricot | 29. Nectared #1 |
| 3. Bowden | 30. Nectared #2 |
| 4. Cavalier | 31. Nectared #3 |
| 5. Champion | 32. Nectared #4 |
| 6. Che Kee | 33. Nectared #5 |
| 7. Cremson Great | 34. Nectared #6 |
| 8. Delicious | 35. Nectared #7 |
| 9. Early Gold | 36. Nectared #8 |
| 10. Early Red | 37. Nectared #9 |
| 11. Fantasia | 38. Nectarose |
| 12. Flavertop | 39. New Jersey |
| 13. Francesco | 40. New York State |
| 14. Fussless Berta | 41. Packhouse |
| 15. Garden State | 42. Pochahontas |
| 16. Harko | 43. Red Chief |
| 17. Hershey | 44. Red Glow |
| 18. Hershey | 45. Red Gold |
| 19. Independence | 46. Red June |
| 20. King | 47. Red Bud |
| 21. La Grande | 48. Slaybaugh |
| 22. Late Glo | 49. Star Grande |
| 23. Late La Grande | 50. Starks Delicious |
| 24. Lexington | 51. Sun Glo |
| 25. Mericrest | 52. Sun Gold |
| 26. Nectacrest | 53. Sun Grand |
| 27. Nectaheart | 54. Sure Crop |

GRAPES

- | <u>Native</u> | <u>French Hybrid</u> |
|---------------|----------------------------------|
| 1. Buffalo | 1. Avrora (Seibel 5279) |
| 2. Caco | 2. Baco Noir (Baco #1) |
| 3. Catawba | 3. Cascade (Seibel 13053) |
| 4. Concord | 4. Chancellor (Seibel 7053) |
| 5. Delaware | 5. Chelois (Seibel 10878) |
| 6. Diamond | 6. Colobel (Seibel 8357) |
| 7. Dutchess | 7. De Chanac (Seibel 9549) |
| 8. Fredonia | 8. Marechal Fosh (Kuhlman 188-2) |
| 9. Himrod | 9. Rosette (Seibel 1000) |
| 10. Isabella | 10. Seibel 5276 |
| 11. Niagara | 11. Seibel 9110 |
| 12. Portland | 12. Seyvel Blanc (Villard 5276) |
| 13. Seneca | 13. Vidal 256 |
| 14. Sheridan | 14. Landot 4511 |
| 15. Sherman | 15. Leon Millot |
| 16. Steuben | 16. Muscat |
| 17. Van Buren | 17. Verdelett |
| 18. Worden | |

Other

- | |
|------------------------|
| 1. Agawan |
| 2. Alden |
| 3. Chambouron |
| 4. Gadwin 113 |
| 5. Interlaken Seedless |
| 6. Moores Earley |
| 7. Moresdiamond |

Vinifers

- | |
|----------------------------|
| 1. Cabernet Sauvignon |
| 2. Johannisburger Resiling |
| 3. Pinot Chardonnay |

1/ Some duplication and "Farmer Brands" may be contained in these lists.

APPLES: TOTAL: NUMBER OF TREES FOR LEADING VARIETIES IN SELECTED STATES 1/

Rank	Pennsylvania		New England		New York		North Carolina		Virginia	
	Variety	Number Of Trees	Variety	Number Of Trees	Variety	Number Of Trees	Variety	Number Of Trees	Variety	Number Of Trees
1.....	R. Delicious	595,237	McIntosh	791,219	McIntosh	672,635	R. Delicious	640,520	R. Delicious	575,432
2.....	York	403,789	R. Delicious	238,543	R. Delicious	455,806	G. Delicious	251,754	G. Delicious	299,427
3.....	G. Delicious	341,760	Cortland	94,925	Rome	335,924	Rome	159,707	York	275,356
4.....	Rome	244,453	G. Delicious	40,527	RI Greening	290,468	Stayman	64,835	Stayman	121,142
5.....	Stayman	183,058	Macoun	30,163	G. Delicious	282,442	Winesap	4,914	Winesap	103,551
6.....	Jonathan	81,232	Baldwin	18,631	Idared	263,394	Jonathan	2,875	Rome	91,289
TOTAL ALL.....		2,145,658		1,365,109		3,554,996		1,173,376		1,592,706

1/ Year data pertains to: New York 1975, New England 1976, Virginia and North Carolina 1977, and Pennsylvania 1978.

PEACHES: TOTAL: NUMBER OF TREES FOR LEADING VARIETIES IN SELECTED STATES 1/

Rank	Pennsylvania		New Jersey		North Carolina		South Carolina		Virginia	
	Variety	Number Of Trees	Variety	Number Of Trees	Variety	Number Of Trees	Variety	Number Of Trees	Variety	Number Of Trees
1.....	Redhaven	111,822	Rio-Oso-Gem	174,883	Redhaven	29,028	Blake	355,764	Sunhigh	34,791
2.....	Sunhigh	95,053	Redhaven	150,877	Blake	21,643	Redglobe	289,180	Redhaven	30,519
3.....	Loring	89,712	Blake	115,076	Loring	19,865	Redhaven	233,997	Elberta	28,833
4.....	Elberta	55,271	Jerseyqueen	103,669	Candor	18,461	Coronet	199,599	Blake	27,463
5.....	Redskin	52,265	Loring	88,600	Georgia Bell	17,009	Loring	182,170	Loring	25,015
6.....	Blake	45,890	Washington	34,337	Winblo	13,788	Rio-Oso-Gem	142,827	Redskin	16,218
TOTAL ALL.....		856,842		1,035,516		279,315		3,140,185		337,643

1/ Year data pertains to: Maryland 1976, New Jersey and Virginia 1977, Pennsylvania and South Carolina 1978.

PEARS: TOTAL: NUMBER OF TREES FOR LEADING VARIETIES IN SELECTED STATES 1/

Rank	Pennsylvania		Michigan		New England		New York	
	Variety	Number Of Trees	Variety	Number Of Trees	Variety	Number Of Trees	Variety	Number Of Trees
1.....	Bartlett	83,111	Bartlett	958,887	Bosc	14,723	Bartlett	262,567
2.....	Bosc	21,021	Bosc	37,306	Bartlett	8,332	Bosc	77,729
3.....	D'Anjou	9,136	Kieffer	27,684	Clapps Fav.	1,827	Clapps Fav.	27,204
4.....	Seckel	2,987	Clapps Fav.	17,337			Seckel	8,863
5.....	Clapps Fav.	2,569	Flemish Beauty	1,711			Spartlett	4,134
6.....	Gorham	1,619	Howell	1,368			Devoe	4,068
TOTAL ALL.....		127,158		1,048,562		28,170		392,285

1/ Year data pertains to: Michigan 1973, New York 1975, New England 1976, and Pennsylvania 1978.

GRAPES: TOTAL: ACRES OF VINES FOR LEADING VARIETIES IN SELECTED STATES 1/






Rank	Pennsylvania		New York		Michigan		North Carolina	
	Variety	Acreage Of Vines	Variety	Acreage Of Vines	Variety	Acreage Of Vines	Variety	Acreage Of Vines
1.....	Concord	11,751.2	Concord	27,568	Concord	15,274	Carlos	508
2.....	Catawba	914.7	Catawba	3,477	Niagara	977	Magnolia	422
3.....	Niagara	471.2	Niagara	2,355	Delaware	243	Scuppernong	288
4.....	Delaware	372.7	Delaware	2,051	Baco Noir	84	Higgins	150
5.....	Seyval Blanc	99.2	Aurora	1,727	Fredonia	71	Fry	45
TOTAL ALL.....		14,271.3		42,653		16,878		1,677

1/ Year data pertains to: North Carolina and Michigan 1973, New York 1975, and Pennsylvania 1978.

ORIGINAL PAGE IS
OF POOR QUALITY

USUAL DATES OF FULL BLOOM, HARVEST AND MARKETING FOR PRINCIPAL PENNSYLVANIA FRUIT CROPS

	APRIL					MAY					JUNE					JULY					AUGUST					SEPTEMBER					OCTOBER					NOVEMBER					MARKETING				
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	Most Active	Ends							
Apples																																							Sept. 10 Mar. 30	June 30					
Peaches																																									Aug. 10 Sept. 25	Oct. 1			
Cherries - Sweet																																										June 20 July 5	July 10		
Cherries - Tart																																										July 5 Aug. 25	Aug. 1		
Pears																																												Aug. 15 Sept. 30	Dec. 15
Grapes																																												Sept. 25 Oct. 25	Nov. 1

Key:  Full Bloom  Harvesting
 Begins  Most Active  Ends

TREE DENSITY GUIDE

DISTANCE BETWEEN TREES IN ROW (FEET)

Feet 1/	6	7	8	9	10	12	14	16	18	20	22	24	26	28	30	32	34	36
4.....	1,815	1,627	1,261	1,210	1,089	907	777	680	605	544	495	453	418	388	363	340	320	302
5.....	1,452	1,240	1,089	966	871	726	622	544	484	435	396	363	335	311	290	272	256	242
6.....	1,218	1,037	907	806	727	605	518	443	403	363	330	302	279	259	242	226	213	201
8.....	907	777	680	605	544	453	388	339	302	272	247	225	209	194	181	169	160	151
10.....	726	622	544	484	435	363	311	272	242	218	207	181	167	155	145	136	128	121
12.....	605	518	453	403	362	302	259	226	201	181	165	151	139	129	121	113	106	100
14.....	518	444	388	345	311	259	222	194	172	155	141	129	119	111	103	97	91	86
16.....	453	388	339	325	272	226	194	169	151	136	123	113	104	97	90	85	80	75
18.....	403	345	302	268	242	201	172	151	134	121	110	100	93	86	80	75	70	67
20.....	363	311	272	242	218	181	155	136	121	108	99	90	83	77	72	66	64	60
22.....	330	282	247	220	207	165	141	123	110	99	90	82	76	70	66	61	58	55
24.....	302	259	226	201	181	151	129	113	100	90	82	75	69	64	60	56	53	50
26.....	279	239	209	196	167	139	119	104	93	83	76	69	64	59	55	52	49	46
28.....	259	222	194	172	155	129	111	97	86	77	70	64	59	55	51	48	45	43
30.....	242	207	181	161	145	121	103	90	80	72	66	60	55	51	48	45	42	40
32.....	226	194	169	151	136	113	97	85	75	66	61	55	52	48	45	42	40	37
34.....	213	183	160	145	128	106	91	80	70	64	58	53	49	45	42	40	37	35
36.....	210	172	151	134	121	100	86	75	67	60	55	50	46	43	40	37	35	33
38.....	191	164	143	127	114	95	81	71	63	57	52	47	44	40	38	35	33	31
40.....	181	155	136	121	108	90	77	66	60	54	48	45	41	38	36	34	32	30
45.....	161	138	121	108	96	81	69	61	54	48	44	40	37	35	32	30	28	27

NUMBER OF TREES PER ACRE FOR CORRESPONDING SPACING

1/ Distance between rows (feet).

Zurich. A member of the ORSER staff traveled to Australia and implemented the system for the Commonwealth Scientific and Industrial Research Organization. While there, he also conducted several short courses and seminars on use of the system.

Foreign users have also visited Penn State to become acquainted with the system. A planner from Italy spent several months at ORSER, generating land use maps of Rome and Milan and demonstrating that Landsat data could be used as valuable input to planning for densely populated European cities. The results of this work were presented to the UN Center for Housing and Urban Development and to several remote sensing conferences in Europe.

The ORSER system is continually expanded and refined to meet the needs of the growing number of users who are finding that its capabilities, flexibility, and portability meet their needs for timely and effective analysis of remote sensing data. Students trained on the system are highly employable and find it easy to adapt to other computerized systems of remote sensing analysis.

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